# **VX6 User's Guide**





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LANGUAGE: ENGLISH

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The user is strongly cautioned to read Appendix B, "Regulatory Notices and Safety Information". Important safety cautions, warnings and regulatory information is contained in Appendix B.



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## **Revision Notice**

## VX6 User's Guide Upgrade From Revision J to Revision K

Section	Explanation
Multi Application AppLock	Revised section.
Accessories	Revised accessories listing.

Note: A complete revision history is included in Appendix B, "Regulatory Notices and Safety Information".

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## **The VX6 Vehicle Mount Computer**

#### Introduction

The VX6 Vehicle Mount Computer (VMC) is a rugged, vehicle-mounted, Microsoft<sup>®</sup> Windows<sup>®</sup> CE equipped computer. The VX6 is capable of wireless data communications from a fork-lift truck or any properly configured vehicle using an 802.11 radio.

The VX6 features a half screen SVGA color TFT display. The touch-screen display supports graphic features and Microsoft Windows CE icons that the Windows CE operating system supports. The keyboard is illuminated to facilitate use in dimly lit areas.



The VX6 provides the power and functionality of a desktop computer in a vehicle mounted unit, with a wide range of options:

- 400MHz Intel® PXA255 CPU
- Windows CE .NET or CE 5.0 Operating System
- Wireless LAN radios with internal, single external or dual external antenna options
- Optional Bluetooth module
- Ethernet port
- USB Host and Client ports
- Choice of indoor or outdoor half screen display
- Available touch screen protective film
- Available Uninterruptible Power Supply (UPS) Battery Pack

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2 Introduction

- Available RAM Mount<sup>TM</sup> options
- Extended temperature version includes touchscreen heater

Note: The "VX6 Reference Guide" contains VX6 technical information and advanced functions.

### **Document Conventions**

This reference guide uses the following document conventions:

ALL CAPS	All caps are used to represent disk directories, file names, and application names.	
Menu Choice	Rather than use the phrase "choose the <b>Save</b> command from the <b>File</b> menu", this manual uses the convention "choose <b>File</b>   <b>Save</b> ".	
"Quotes"	Indicates the title of a book, chapter or a section within a chapter (for example, "Document Conventions").	
< >	Indicates a key on the keyboard (for example, <enter> ).</enter>	
	Indicates a reference to other documentation.	
斧	Differences in operation or commands due to radio type.	
ATTENTION	Keyword that indicates vital or pivotal information to follow.	
<u></u>	Attention symbol that indicates vital or pivotal information to follow. Also, when marked on product, means to refer to the manual or operator's guide.	
	International fuse replacement symbol. When marked on the product, the label includes fuse ratings in volts (v) and amperes (a) for the product.	
Note:	Keyword that indicates immediately relevant information.	
Caution	Keyword that indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.	
WARNING .	Keyword that indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.	
DANGER !	Keyword that indicates an imminent hazardous situation, which, if not avoided, will result in death or serious injury.	

Introduction 3

## **Environmental Specifications**

Feature	Specification
Operating Temperature	
Standard version	-4°F to 122°F (-20°C to 50°C) [non-condensing]
Extended Temperature version	-22° to 122° F (-30°C to 50°C [condensing]
Storage Temperature	
Standard version	-22°F to 140°F (-30°C to 60°C) [non-condensing]
Extended Temperature version	-22°F to 140°F (-30°C to 60°C) [condensing]
Water, Sand Dust	IP66 per IEC60529
Operating Humidity	
Standard version	Up to 90% non-condensing at 104°F (40°C)
Extended Temperature version	100%
Vibration	Based on MIL Std 810F
ESD	15 kV
Bluetooth Range	32.8 feet (10 meters) Direct line of sight only

4 Quick Start

#### **Quick Start**

This section's instructions are based on the assumption that your new system is pre-configured and requires only accessory installation (e.g. antenna and/or barcode scanner) and a power source.

Use this guide as you would any other source book -- reading portions to learn about the VX6, and then referring to it when you need more information about a particular subject. This guide takes you through installation and operation of the LXE VX6.

In general, the sequence of events is:

- 1. Install Vehicle Mounting Bracket on vehicle and secure VX6 in Mounting Bracket Assembly (see "Installation", later in this manual).
- 2. Connect power cable to the VX6. The power cable can also be connected to a UPS battery pack, which is then connected to the VX6.
- 3. Connect accessories to VX6, e.g. scanner, antenna, etc.
- 4. Secure all cables to the VX6 with the Strain Relief Cable Clamps.
- 5. Turn the VX6 on.
- 6. When instructed, calibrate the touchscreen.
- 7. The screen may appear white while applications and drivers are loading. When complete, set Date and Time (see the "VX6 Reference Guide").
- 8. Configure radio (see the VX6 Reference Guide").
- 9. Warmboot to ensure all registry settings are saved.
- 10. Device is ready for use.

The VX6 should be mounted in an area in the vehicle where it:

- Does not obstruct the vehicle driver's vision or safe vehicle operation.
- Can be easily accessed by anyone seated in the driver's seat.



If your VX6 has AppLock installed, please contact your system administrator for setup and processing information.

AppLock is configured by an administrator to limit general users to only certain programs.

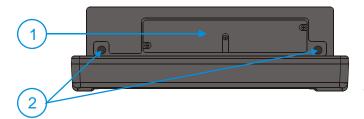
Quick Start 5

## **Troubleshooting**

Can't calibrate the touch screen, change the date/time or adjust the volume.	AppLock is installed and running on the mobile device. AppLock restricts User access to running programs. Changes or modifications require Administrator access.  Refer to AppLock in the VX6 Reference Guide for setup and processing information.
RFterm opens and runs upon each cold reset and warm reset.	Tap File   Exit to close the RFTerm application.
The VX6 seems to lockup as soon as it is warm booted.	There may be small delays while the wireless client connects to the network, authorization for Voxware-enabled applications complete, Wavelink Avalanche management of the VX6 startup completes, and Bluetooth relationships establish or re-establish.

6 Components

## **Components**



- Access Panel Cover (See Following Illustrations for Detail)
- 2. Antenna Connectors or Hole Plugs

Figure 1 VX6 Components, Top View

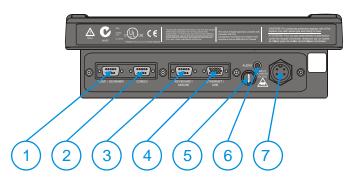
Note: When the internal antenna option is ordered, the internal antenna is mounted on the inside of the Access Panel Cover.



- 1. Speakers
- 2. Control Panel (See Following Illustrations for Detail)
- 3. 2nd Indicator
- 4. Caps Lock Indicator

Figure 2 VX6 Components, Front View

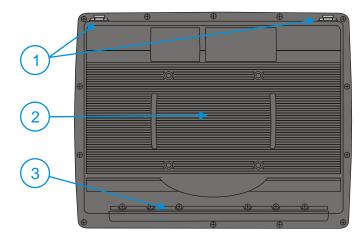
Components 7



- COM1/Scanner Connector
- 2. COM3 Connector
- 3. Keyboard/Mouse Connector (Not Used)
- 4. Ethernet/USB Cable Connector (USB-Host and USB-Client)
- 5. Fuse
- 6. Audio Connector
- 7. Power Cable Connector

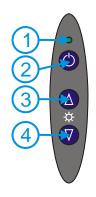
Figure 3 VX6 Components, Bottom View

Note: COM1 is configured with Pin 9 +5V. COM3 is labeled "COM2/3" and is configured with Pin 9 RI. Please see the VX6 Reference Guide for details.



- Antenna Connectors or Plugs
- 2. Bracket Mounting Area
- 3. Strain Relief Bracket and Screws

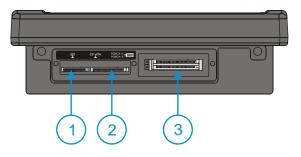
Figure 4 VX6 Components, Back View



- 1. Power LED
- 2. Power Switch
- 3. Brightness Increase
- 4. Brightness Decrease

Figure 5 VX6 Control Panel

8 Components



- SD Memory Card Slot
- 2. Compact Flash ATA Hard Drive
- 3. PCMCIA Slots

Figure 6 VX6 Access Panel

Note: The tethered access panel cover is not shown in the illustration above.

#### The Half-Screen Display

The VX6 has a half screen TFT color display capable of supporting SVGA graphics mode. The resolution is 800 x 320 pixels.

#### **VX6 Control Panel**

The VX6 control panel contains the status LED, power button and display brightness adjustment buttons. Please refer to the "Operation" section, later in this manual, for details on the VX6 Control Panel.

#### **Microsoft Windows CE Control Panel**

The Microsoft Windows CE .NET or CE 5.0 Control Panel provides standard Windows CE options for configuring the VX6, such as:

- Sounds and volume control
- Display configuration



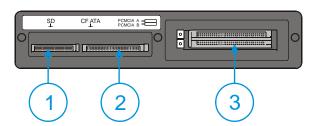
Please consult your System Administrator or refer to commercially available Microsoft Windows CE user guides or the on-line Help application for these standard configuration options.

#### **PCMCIA, ATA and SD Slots**

The VX6 has two PCMCIA slots. These slots are intended for use with Type I or II cards, such as LXE's 802.11 radios. These slots are hot swappable per PCMCIA specifications.

The Compact Flash (CF) slot contains the Compact Flash ATA hard drive. This drive contains the Operating System and the Documents and Settings. The VX6 does not operate without this card installed. The CF card is not hot swappable.

One Secure Digital (SD) slot is provided for SD memory cards. The SD card is hot swappable.



- 1. SD Memory Card Slot
- 2. Compact Flash ATA Hard Drive
- PCMCIA Slots

Figure 7 The VX6 PCMCIA, CF and SD Slots

Please see the "VX6 Reference Guide" for more details on the PCMCIA, CF and SD slots.

### AppLock and the VX6

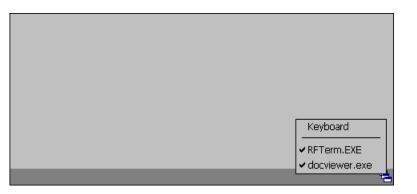
AppLock may be installed and running on the mobile device. AppLock restricts access to programs and the Windows CE Control Panel. Please contact your system administrator for details

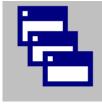
### **Single Application AppLock**

Single application AppLock restricts a user to one application. The user is unable to exit the application (or if the application exits, it immediately restarts).

Note: Single application AppLock is obsolete. Please contact your LXE representative if you desire to upgrade to multi application AppLock.

#### **Multi Application AppLock**





Switchpad Menu

Switchpad Icon in Taskbar

Figure 8 Switchpad Menu

A checkmark indicates applications currently active. Applications without a checkmark are available for Launching by the user. When Keyboard is selected, the VX6 default input method (Input Panel, Transcriber, or custom input method) is activated.

Note: If "Keyboard" is not present in the window, an older version of AppLock is installed. Please contact your LXE representative for upgrade information, if desired.

#### **Using the Touchscreen**

Note: The touch screen must be enabled.

When the mobile device enters end-user mode, a Switchpad icon (it looks like three tiny windows one above the other) is displayed in the taskbar. The taskbar is always visible on top of the application in focus.

When the user taps the Switchpad icon, a menu is displayed showing the applications available to the user. The user can tap an application name in the popup menu and the selected application is brought to the foreground. The previous application continues to run in the background. Stylus taps affect the application in focus only. When the user needs to use the Input Panel, they tap the Keyboard option. Input Panel taps affect the application in focus only.

The figure shown above is an example and is shown only to aid in describing how the user can switch between applications using a stylus.

### **Using the Keypad**

One switch key sequence (or hotkey) is defined by the administrator for the end-user to use when switching between locked applications. This is known as the **Activation key**. When the switch key sequence is pressed on the keypad, the next application in the AppLock configuration is moved to the foreground and the previous application moves to the background. The previous application continues to run in the background. End-user key presses affect the application in focus only.

See the VX6 Reference Guide for AppLock setup instruction.

#### The QWERTY Keyboard

The VX6 has a QWERTY keyboard, available with a standard overlay, an IBM 3270 overlay or an IBM 5250 overlay. These keyboards have 101 keyboard functions, including a numeric keypad. Please refer to Appendix A, "Key Maps", for keypress combinations.



Figure 9 QWERTY Keyboard Standard

### **IBM 3270 Overlay**



Figure 10 QWERTY Keyboard with IBM 3270 Overlay

#### **IBM 5250 Overlay**



Figure 11 QWERTY Keyboard with IBM 5250 Overlay

*Note:* Press the <CTRL> + <Enter> keys to initiate the IBM 5250 Field Exit Function.

#### **Key Maps**

The keyboard supports all 101 keyboard functions. However, because the keyboard only has 60 keys, all functions are not visible (or printed on the keyboard). Therefore the VX6 keyboard supports what is called hidden keys -- keys that are accessible but not visible on the keyboard.

The hidden keys supported by the VX6 are listed in Appendix A, "Key Maps".

#### **Unused Key Functions**

There are several key functions on the keyboard that are not used on the VX6. These include:

- <2nd> <F3> The Resume/Suspend function is not used, as the VX6 does not support these power management modes.
- <2nd> <F4> and <2nd> <F5> The Display Brightness functions are not used as the display brightness is adjusted by the buttons on the VX6 control panel.
- <2nd> <F6> and <2nd> <F7> The Contrast functions are not used as the contrast is not adjustable on the TFT display on the VX6.
- <2nd> <F8> and <2nd> <F9> The Volume control keys are not used as volume is adjusted via the Microsoft Windows CE Control Panel.
- <2nd><F10> The keyboard backlight in controlled by Windows CE Power Management.

#### **Custom Key Maps**

The System Administrator can create custom key maps. Details are in the VX6 Reference Guide.

#### NumLock and the VX6

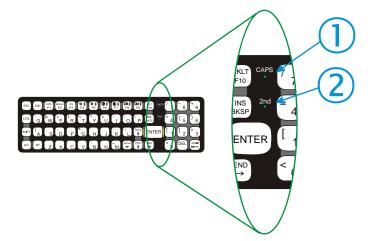
The keyboard does not have a NumLock indicator or key. NumLock is always On.

#### **Keyboard Backlight**

The LXE keyboard keys are backlit. The keyboard backlight and the display share the same timer, which is configured in the Windows CE Control Panel. When the display is On, the keyboard backlight is also On. Please refer to Control Panel Options in the "VX6 Reference Guide" for more information.

## **Keyboard LEDs**

The VX6 keyboard has two (2) LED indicators.



- 1. CapsLock Mode LED Indicator
- 2. Secondary Mode LED Indicator

Figure 12 Keyboard LEDs

#### **CAPS LED**

This LED indicates the state of the keyboard CapsLock mode. If CapsLock is enabled this LED is illuminated green. When CapsLock is off, the LED is dark.

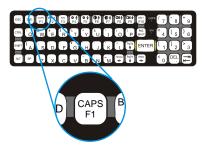


Figure 13 The CapsLock Key

Press <2<sup>nd</sup>> then <F1> to toggle CapsLock On and Off.

The default value of CapsLock is "Off". For information on configuring the behavior of CapsLock after a reboot, please refer to the "VX6 Reference Guide".

#### **Secondary Keys LED**

The keyboard is equipped with several secondary keys. These keys are identified by the superscripted text found on the keyboard keys. The secondary keys are accessible by using two (2) keystrokes: the  $<2^{\text{nd}}>$  key followed by the superscripted key.

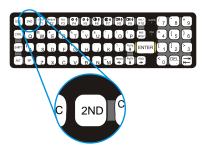


Figure 14 The Secondary Key

Once the  $<2^{nd}>$  state is enabled (by pressing the  $<2^{nd}>$  key) the Secondary Mode LED is illuminated and the  $<2^{nd}>$  state is enabled until another key is pressed. The  $<2^{nd}>$  key is toggled on with a  $<2^{nd}>$  keypress and then immediately off with another  $<2^{nd}>$  keypress.

#### For example:

Press <2<sup>nd</sup>> and <F1> to turn CapsLock on and off.

Press  $<2^{nd}>$  and  $<\uparrow>$  to initiate the PgUp command.

Press <2<sup>nd</sup>> and <Q> to type the "!" key.

Press <2<sup>nd</sup>> and <BkSp> to enter the Insert (Ins) mode.

#### **Control Keys**

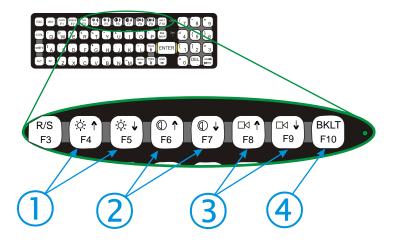
The keyboard has several control keys, which are not used on the VX6.

Note: The  $2^{nd}$  functions of the <F4> and <F5>keys are not used as the display brightness is adjusted via the buttons on the control panel.

The  $2^{nd}$  functions of the <F6>, and <F7> keys are not used as the VX6 has TFT LCD screen with no provision for contrast adjustments.

The  $2^{nd}$  functions of the <F8> and <F9> keys are not used as the sound volume on the VX6 is controlled with the Volume and Sounds icon in the Microsoft Windows CE .NE Control Panel

The  $2^{nd}$  function of the <F10> key is not used as the display backlight timer also controls the keyboard backlight.



- Display Brightness Control Keys (Not used)
- Display Contrast Control Keys (Not used)
- 3. Speaker Volume Control Keys (Not used)
- 4. Backlight Control Key (Not Used)

Figure 15 Keyboard Display Controls

## **General Windows CE Keyboard Shortcuts**

Use the keyboard shortcuts in the chart below to navigate with the VX6 keyboard. These are standard keyboard shortcuts for Windows CE applications.

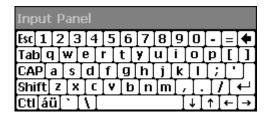
Press these keys	То
CTRL + C	Сору
CTRL + X	Cut
CTRL + V	Paste
CTRL + Z	Undo
DELETE	Delete
SHIFT with any of the arrow keys	Select more than one item in a window or on the desktop, or select text within a document.
CTRL+A	Select all.
ALT+ESC	Cycle through items in the order they were opened.
CTRL+ESC	Display the Start menu.
ALT+Underlined letter in a menu name	Display the corresponding menu.
Underlined letter in a command name on an open menu	Carry out the corresponding command.
ESC	Cancel the current task.

The touchscreen provides equivalent functionality to a mouse:

- A touch on the touchscreen is equivalent to a left mouse click.
- Many items can be moved by the "drag and drop" method, touching the desired item, moving the stylus across the screen and releasing the stylus in the desired location.
- A double stylus tap is equivalent to a double click.
- A touch and hold is equivalent to a right mouse click.

## **Input Panel (Virtual Keyboard)**

The Input Panel may be enabled via the Input Panel icon in the Windows CE Control Panel. The Input Panel can be displayed as a large or small keyboard.



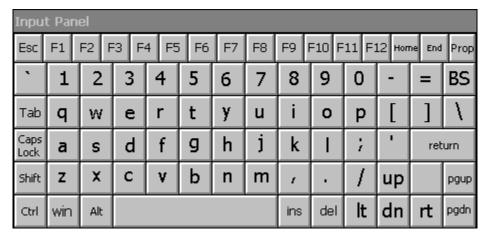


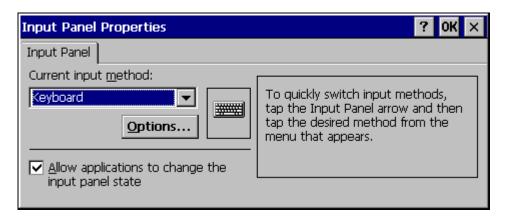
Figure 16 Small and Large Virtual Keyboards

Virtual keyboards display the actual character a keypress results in. For example, pressing the <Shift> key on the virtual keyboard toggles the characters displayed on the keys between upper and lower case. The <áü> key toggles the keys between standard and international symbols. The <Shift> and <áü> keys can be used in combination for capitalized international characters.

Note: When the virtual keyboard is displayed, the physical keyboard is still active. Therefore it is possible to input data from both keyboards.

#### **Enabling the Input Panel**

The Input Panel is disabled by default. To enable the Input Panel, select **Start | Settings | Control Panel |Input Panel** icon. Make sure the "Allow applications to change the input panel state" checkbox is checked and warmboot the VX6.



**Figure 17 Input Panel Properties** 

20 Power Supply

#### **Power Supply**

Vehicle power input for the VX6 is 12V to 80V DC and is accepted without the need to perform any manual adjustments within the VX6. See the section titled "Installation", sub-section titled "Vehicle 12-80V DC Direct Connection". An optional Uninterruptible Power Supply (UPS) battery pack is available for the vehicle power supply connection.

If 12V to 80V DC power is not available – for example, in an office environment – an optional external Input Power Supply can be used to convert AC wall power to an appropriate DC level. See the section titled "Installation", sub-section titled "External Power Supply".

Power input is fused for protection and the fuse is externally accessible. See section titled "Installation", sub-section titled "Fuse Replacement for the VX6".

#### **Uninterruptible Power Supply Battery Pack**

An optional Uninterruptible Power Supply (UPS) battery pack is designed to provide power to the VX6 for short periods of time when vehicle power is unavailable (such as when vehicle batteries are swapped). Fully charged, the UPS battery powers the VX6 for a minimum of 15 minutes at 25° C (77° F) ambient temperature.

The Power Status LED on the VX6 indicates the UPS battery status:

Green – Running on 12V – 80V power input

Solid Yellow - Running on UPS battery, battery is not low on power

Flashing Yellow – Running on UPS battery, battery is critically low.

#### **Backup Battery**

The internal 190 mAh Lithium backup (coin cell) battery provides power to maintain date and time when the VX6 is not powered from an external source.



Danger of explosion if battery is incorrectly replaced.

Replace only with the same type or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

Getting Help 21

## **Getting Help**

All LXE manuals are now available on one CD and they can also be viewed / downloaded from the LXE ServicePass website on the ServicePass / Documentation page. Contact your LXE representative to obtain the LXE Manuals CD or logon information for the ServicePass web pages.

You can also get help from LXE by calling the telephone numbers listed on the LXE Manuals CD, in the file titled "Contacting LXE". This information is also available on the LXE website.

Explanations of terms and acronyms used in this guide are located in the file titled "Glossary" on the LXE Manuals CD.

#### **Manuals and Accessories**

#### **Manuals**

The following manuals are available on the LXE Manuals CD:

- VX6 Reference Guide
- Contacting LXE
- LXE Technical Glossary

#### **Accessories**

The table below lists the available VX6 accessories.

VX6 Brackets	
Bracket, U Style, VX6 VX77	9000021BRACKET
Kit, VXX U-Bracket to VX6 VX7 Adapter	9000022BRACKET
Bracket, RAM Mount VX6 VX7	9000023BRACKET
Bracket, VXX RAM ball on plate	9000028BRACKET
Bracket, RAM Squeeze Mount, VX6 VX7	9000031BRACKET
Bracket, RAM Backup Mounting Plate	9000033PLATE
Data Cables	
Cable, Combo D15 to USB and Ethernet Adapter 1 Ft	9000052CABLE
Cable, Combo D15 to USB-H, USB-C and Ethernet Adapter	9000075CABLE
Cable, Printer/PC, D9 to D25	9000053CABLE
Cable, PC, D9 to D9	9000A054CBL6D9D9
Power Cables	
Cable, Input Power, 12 FT, VX5 VX6 VX7	9000054CABLE
Adapter Cable, VX1 VX2 VX4 Power Cable to VX5 VX6 VX7	9000077CABLER
Power Supplies	
Power Supply, External, AC, W/US Power Cord VX5 VX6 VX7	9000A317PSACUS-R
Power Supply, External, AC, No Power Cord VX5 VX6 VX7	9000A318PSACWW-R

22 Manuals and Accessories

UPS Battery and Cables	
Battery, UPS Lead Acid, VX5 VX6 VX7	9000376BATTERY
Cable, UPS Battery, Remote Mount Extender, 6 Ft	9000063CABLE
Antenna and Antenna Mount Kits	
Replacement antenna, 2.4GHz	153180-0001
Remote Mount Antenna Kit, 8 Ft Cable, a/b/g	9000283ANTENNA
Remote Mount Antenna Kit, 6 Ft Cable, a/b/g	9000282ANTENNA
Right Angle Remote Mount Antenna Kit, 6 Ft Cable, a/b/g	9000284ANTENNA
Right Angle Remote Mount Antenna Kit, 15 Ft Cable, a/b/g	9000285ANTENNA
Miscellaneous	
Stylus, with Tethers and Sleeves, 5 Pack	9000A510STYLUS
Protective Film, Touchscreen, 10 Pack, VX6	VX6A512PROTFILM
Voice Recognition Accessories	
Headset coiled adapter cable, with quick disconnect connector to a 2.5 mm audio jack. A headset (see below) is required	9000076CABLE
Single Ear Headset with Noise Cancelling Microphone	9000601HEADSET
Scanners	
Scanner, LS3408 Fuzzy Logic SR, D9 Interface Cable, 8ft	8510326SCANNER
Scanner, LS3408 Extended Range, D9 Interface Cable, 8ft	8520326SCANNER
Imager, DS3408 Standard Focus, D9 Interface Cable, 9ft	8550326SCANNER
Imager, DS3408 Direct Park Marking, D9 Interface Cable, 9ft	8570326SCANNER

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Bluetooth Scanner and Accessories	
LXE Bluetooth module with laser ring scanner, battery, two hand/wrist straps (large and small)	8651100RINGSCR
LXE Bluetooth module with 1D/2D imager ring scanner, battery, two hand/wrist straps (large and small)	8652100RINGSCR
Li-Ion Spare Battery for LXE Bluetooth Ring Scanner Module	8650376BATTERY
LXE 8-bay battery charger with US power cord	8650377CHARGER
LXE 8-bay battery charger WW	8650378CHARGER
LXE single-bay charger with US wall plug	8650379CHARGER
LXE single-bay charger WW	8650380CHARGER
PowerScan 7000BT Scanner RS-232 with pointer	8700A301SCNRBTSRI
PowerScan 7000BT Base Station, RS232, without universal power supply.	8700A501BASERS232
PowerScan 7000BT Base Station Power Supply, Std US, 120V	8700A502PSACUS
PowerScan 7000BT, RS232 Cable for Base Station, DB9S, Coil, 8'	8700A001CBL8DA9F
PowerScan 7000BT Battery Charger with Power Supply, Four Station, US Std	8700A503CHGR4US
PowerScan 7000BT Battery Pack	8700A504BATT
Bluetooth Standard Range Fuzzy Logic laser scanner	8810A326SCNRBTFZ
Bluetooth Auto range "LORAX" scanner	8820A327SCNRBTER
Desk Cradle, Radio/Charging, Multi-Interface	8800001CRADLE
Desk Cradle, Charge Only, Mulit-Interface	8800002CRADLE
Forklift Cradle, Radio/Charging, Multi-Interface	8800003CRADLE
Forklift Cradle, Charge Only, Multi-Interface	8800004CHARGER
US AC Power Cord	8800051CABLE
Universal Desktop Power Supply 90-264VAC	8800A301ACPS
9-60VDC Forklift Power Supply	8800A302DCPS
Power Cable (connects Power Supply to Forklift)	8800052CABLE
Cable Assembly, DA9F, 9 ft, Cradle to Terminal	8500A051CBL9DA9F
Forklift Rugged Scanner Holder with RAM mount	8800A005STAND
8800 Spare Battery	8800A376BATTERY
Single slot Universal Battery Charger Adapter Cup	8800377CHARGER
Single Slot Battery Charger w/International Power	8800378CHARGER
Universal Battery Charger, 4 slot. Requires 4 adapter cups	8800A379CHGRBASE
Scanner Holster for Belt	8200A501HOLSRBELT
Mounted take up Reel	8000A501INDREEL
Auto Sense Intellistand, Hands Free Scanning	8500A505STANDSMT
Strap with Scanner Clip	9000A411SCNRSTRAP

E-EQ-VX6OGWW-K VX6 User's Guide

Manuals and Accessories

#### Installation

#### **Install Mounting Brackets**



This device is intended to transmit RF energy. For protection against RF exposure to humans and in accordance with FCC rules and Industry Canada rules, this transmitter should be installed such that a minimum separation distance of at least 20 cm (7.8 in.) is maintained between the antenna and the general population. This device is not to be co-located with other transmitters.

*Equipment Needed:* Phillips No. 1 screwdriver and a Torque wrench capable of measuring to 50 inch pounds (5.64±.56 N/m).

Note: Torquing tool is not supplied by LXE. Bolts, washers, and wrench needed when attaching the bottom mounting bracket to the vehicle are not supplied by LXE.

Several types of mounting systems are provided for the VX6:

- RAM mount system:
  - o Available RAM ball base or RAM clamp mount
- U-Bracket system:
  - Provision for integrated UPS battery mount
  - o Available without U-Bracket for vehicles previously equipped with an LXE vehicle mounted computer
- Remote mount for UPS battery pack

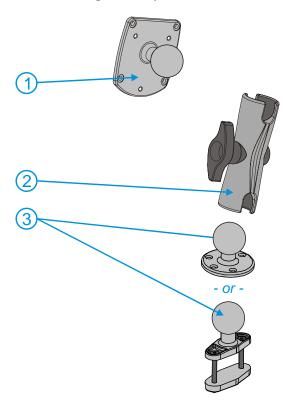
Before installation begins, verify you have the applicable vehicle mounting bracket assembly components necessary for your mount type, as shown in the following figures.

E-EQ-VX6OGWW-K VX6 User's Guide

## **RAM Mount System**

### **Components**

#### **RAM Mounting Assembly**



The RAM mounting assembly consists of the following parts:

- 1. VXX RAM ball bracket
- 2. RAM arm, size D
- 3. RAM ball base

- or -

RAM clamp mount

RAM Clamp Mount includes: Upper Clamp Piece with Ball Lower Clamp Piece Bolts (2 each) Nylon locking nuts (2 each)

**4.** Hardware (not shown):

Bolts, 1/4-20x5/8 (4 each) Washers, 1/4 locking (4 each) Washers, 1/4 flat (4 each)

RAM wrench

### **Torque Measurements**

You will need a torquing tool capable of torquing to 50 inch pounds (5.64±.56 N/m).

Torque all screws and bolts according to the following table:

For these screws and bolts	Torque to
1/4 bolts	50.0±5 in/lb (5.64±.56 N/m)

## **Procedure**

## Step 1a - Mount Vehicle RAM Ball Base

Note: If you are using the RAM clamp mount, please skip to Step 1b.

- 1. Determine the position for mounting the RAM ball base. Be sure to position the RAM ball base to allow access to the switches and ports on the bottom of the VX6.
- 2. Attach the RAM ball base to the vehicle mounting surface using four 1/4 bolts (or equivalent) fasteners.

Note: 1/4 bolts not included.

**IMPORTANT**: Mount to the most rigid surface available.

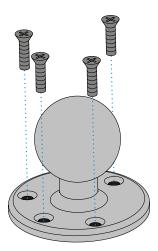


Figure 18 Connect Vehicle RAM Mount Bracket to Vehicle

## **Mounting Dimensions**

Note: Drill and tap holes for 1/4 bolts.

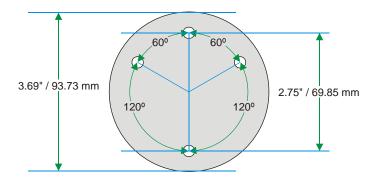


Figure 19 VX6 RAM Bracket - Mounting Dimensions (Not To Scale)

## **Step 1b – Mount Vehicle RAM Clamp Mount**

Note: If you are using the RAM ball base, complete Step 1a and skip Step 1b.

- 1. Determine the position for mounting the RAM clamp mount. The clamp mount can be used on a beam (such as on a fork lift truck) up to 2.5" (63.5 mm) wide and approximately 2" (50.8 mm) thick. The clamp may be attached to a thicker beam by substituting longer bolts (not included). Be sure to position the RAM clamp mount to allow access to the switches and ports on the bottom of the VX6.
- Position the upper clamp piece with ball (A) on the beam. Place the bolts (B) through the holes in the upper clamp piece.
- 3. Position the lower clamp piece (C) below the beam. Align the bolts with the holes in the lower clamp piece.
- 4. Place the nylon locking nuts (D) on the bolts and tighten the bolts.

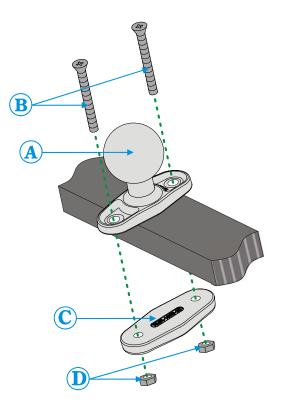


Figure 20 RAM Clamp Mount Components

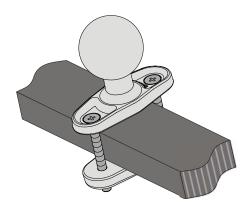


Figure 21 Assembled RAM Clamp Mount

# **Mounting Dimensions**

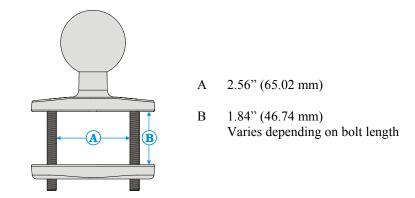


Figure 22 RAM Clamp Mount - Mounting Dimensions (Not To Scale)

## Step 2 – Attach RAM Mount Ball to the VX6

- 1. Turn the VX6 off before attaching the RAM mount ball.
- 2. Place the VX6 face down on a stable surface.
- 3. Position the RAM ball bracket on the rear of the VX6, aligning the curved edge on the RAM mount bracket with the curved edge on the VX6. Attach with four 1/4-20x5/8 bolts, using one flat washer and one locking washer per bolt. Place the locking washer on the bolt before the flat washer.

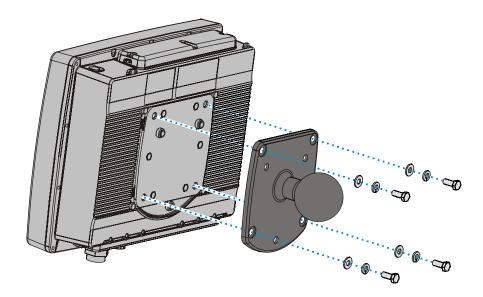


Figure 23 Attach RAM Mount to VX6



Failure to use one  $\frac{1}{4}$  flat washer and one  $\frac{1}{4}$  locking washer per bolt can result in damage to the backplate of the VX6 computer.

# Step 2 - Attach VX6 Assembly to RAM Mount

1. Slip the RAM arm over the ball on the vehicle RAM ball bracket. Insert the ball of the RAM mount bracket into the RAM arm. Adjust the VX6 to the desired position and tighten the knob on the RAM arm using the supplied RAM wrench.

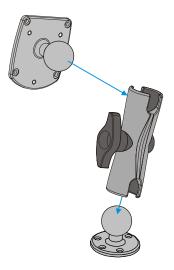


Figure 24 RAM Assembly

Note: RAM ball base shown.

# **Completed Assembly**

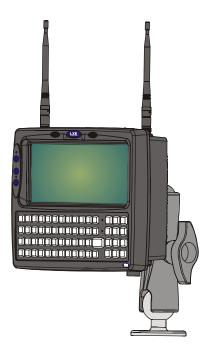


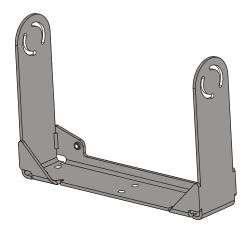
Figure 25 Completed RAM Mount Assembly

Note: RAM ball base shown.

# **U-Bracket Mount System**

## **Components**

## **Bottom Mounting Bracket**



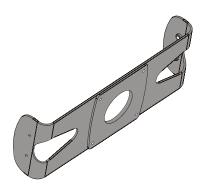
This bracket is mounted to the vehicle. The VX6 can be mounted to the bottom mounting bracket. The UPS battery pack may be mounted to the bottom mounting bracket.

If the optional UPS battery pack is to be mounted to the bottom bracket, use the following parts included with the UPS battery pack (not shown):

1" long aluminum spacer w/through hole (2 each) 1/4 flat washer (2 each)

1/4 locking washer (2 each) screw, pan head, 1/4-20x2 (2 each)

**Back Bracket Assembly** 



- 1. Rear Bracket
- **2.** Hardware (not shown):

1/4 flat washer (8 each)

1/4 locking washer (8 each)

1/4 flat washer (8 each)

## **Mounting Positions**

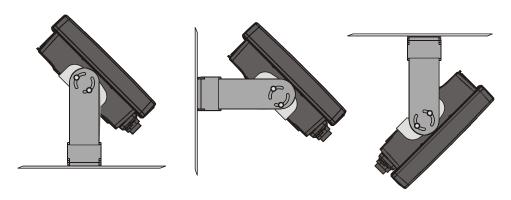


Figure 26 Suggested Mounting Positions

The viewing angle can be adjusted through a wide range to provide the best viewing angle.

# **Torque Measurements**

You will need a torquing tool capable of torquing to 50 inch pounds (5.64±.56 N/m).

Torque all screws and bolts according to the following table:

For these screws and bolts	Torque to
1/4 bolts	50.0±5 in/lb (5.64±.56 N/m)

### **Procedure**

## **Step 1 - Mount Bottom Mounting Bracket To Vehicle.**

- 1. Position the bracket to allow access to the switches and ports on the bottom of the VX6.
- 2. Attach the bottom mounting bracket to the vehicle mounting surface using a minimum of four 1/4 bolts (or equivalent) fasteners.

Note: 1/4 bolts and washers not included. It is recommended to use lock washers and flat washers on the fasteners.

**IMPORTANT**: Mount to the most rigid surface available.

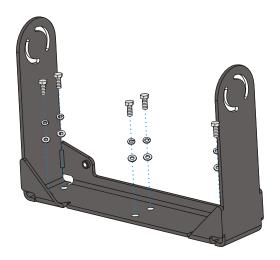
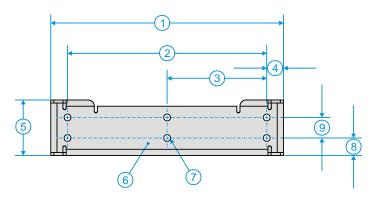


Figure 27 Connect Bottom Bracket to Vehicle

After the bottom bracket has been attached to a rigid surface, you are ready to assemble the VX6 bracket configuration.

## **Mounting Dimensions**



- 1. 14.40 in / 359.2 mm
- 2. 12.10 in / 307.3 mm
- 3. 6.05 in / 153.6 mm
- 4. 1.02 in / 25.9 mm
- 5. 3.38 in / 85.85 mm
- 6. Vehicle Mount Footprint
- 7. 0.406 in / 10.312 mm
- 8. 0.88 in / 22.3 mm
- 9. 1.25 in / 31.75 mm

Figure 28 VX6 Bracket - Mounting Dimensions (Not To Scale)

# Step 2 - Connect Rear Bracket to VX6

- 1. Turn the VX6 off before attaching the rear bracket.
- 2. Place the VX6 face down on a stable surface.
- 3. Align the rear bracket with the holes on the back of the VX6. Attach with four 1/4-20x5/8 bolts, using one flat washer and one locking washer per bolt. Place the locking washer on the bolt before the flat washer.

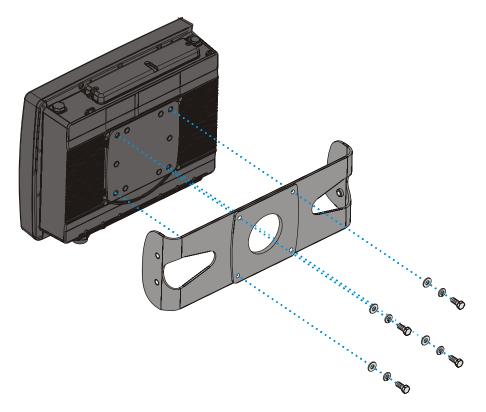


Figure 29 Attach Rear Bracket to VX6

## **Step 3 - Attach VX6 Assembly To Bottom Mounting Bracket.**

1. Place lock washer first, then flat washer on 1/4-20x5/8 bolt. Next insert mounting bolts through the curved apertures in the bottom mounting bracket and into the screw holes on the side of the back mounting bracket.

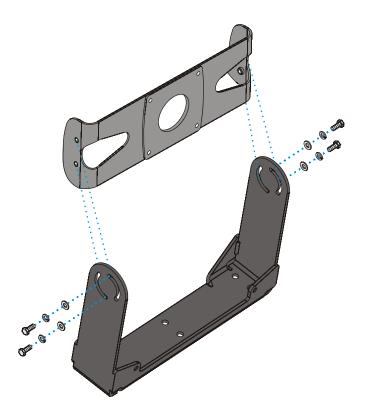


Figure 30 Attach VX6 Assembly to Bottom Bracket

2. Loosely tighten each bolt as it is inserted.

# Important: Do not torque bolts until all bolts are in place and viewing angle is adjusted.

- 3. Loosen the hex bolts on both sides to adjust the viewing angle of the mounted VX6.
- 4. Torque the hex bolts to  $50\pm5$  in lbf ( $5.64\pm.56$  N m).

Note: Test the torque on the bolts frequently during operation and re-tighten if necessary to  $50\pm 5$  in lbf ( $5.64\pm .56$  N m).

5. If using a UPS battery pack, the battery pack can be mounted to the bottom mounting bracket. Place a locking washer and then a flat washer on a 1/4-20x2 bolt. Thread the bolt through the UPS Battery Pack, then through the 1" aluminum spacer and into the mounting bracket.

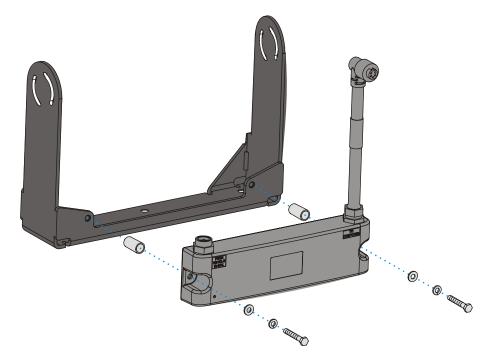


Figure 31 Integrated UPS Battery Pack Mount

- 6. Connect all cables to the VX6. Secure the cables with the strain relief cable clamps, ensuring a slack loop remains between the cable clamp and the accessory connector.
- 7. The vehicle mounted bracket and the VX6 are now ready to use.

# **Completed Assembly**



Figure 32 VX6 in Vehicle Bracket

# **Install Stylus Tether and Sleeve**

The LXE stylus kit includes the stylus, tether and sleeves. The tether allows the stylus to be mounted to the VX6 and the sleeve provides storage for the stylus when not in use.

## **How To Install Stylus Tether and Sleeves**

1. Locate the tether holes on the top of the VX6. (see below):

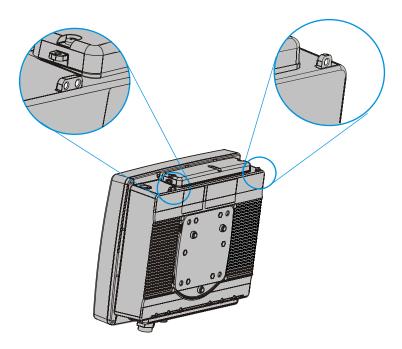


Figure 33 Stylus Tether Mounting Holes

- 2. Select the mounting hole most convenient for the particular VX6 installation.
- 3. Slide the clip end of the stylus tether into the tether mounting hole.
- 4. Determine a convenient location for the stylus sleeve. Apply the adhesive baked Velcro® loop strip to the VX6. Attach the Velcro® hook strip on the elastic stylus sleeve to the loop strip.

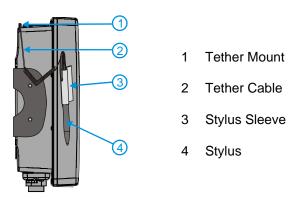


Figure 34 Tethered Stylus, Typical Installation

## **Install/Remove Touchscreen Protective Film**

LXE offers a replaceable touchscreen protective film to protect the touchscreen when the VX6 is used in an abrasive environment.

## **How To Install Touchscreen Protective Film**

1. Make sure both the touchscreen and protective film are clean and dry before installation. Please review "Cleaning the Display", later in this guide, for instructions on suitable cleani

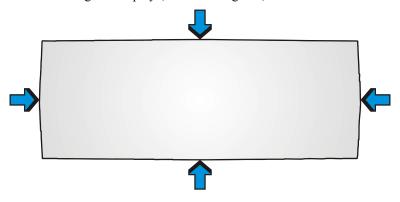


Figure 35 VX6 Touchscreen Protective Film

- 2. Center the protective film over the touchscreen. The antiglare side must be facing outward. Do not cut or trim the protective film.
- 3. The protective film is approximately 1/10" (2.54cm) larger than the touchscreen at the centers of the edged (indicated by the arrows in the figure above).
- 4. Slide the protective film so that one of the edges of the film can be slid between the touchscreen and display housing when the protective film is re-centered on the touchscreen. Repeat for the other three edges, ensuring the protective film is centered over the touchscreen when finished.

## **How to Remove Touchscreen Protective Film**

1. To remove the protective film, slide the protective film in one direction until the edge clears. Lift up on the edge of the film so it does not slide between the touchscreen and display housing when slid back. Repeat until all edges are free and remove the protective film.

# **UPS Battery Pack Remote Mount**

The optional UPS battery pack must be mounted remotely when using the RAM mount system or a U-bracket designed for a previous model LXE computer. The remote mount can also be used with the VX6 U-bracket assembly if it is not convenient to mount the UPS battery pack to the U-bracket.

A six foot extension cable is available to connect the UPS battery pack to the VX6.

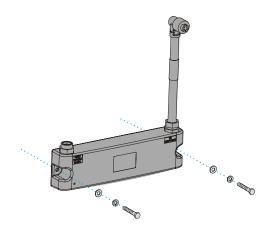


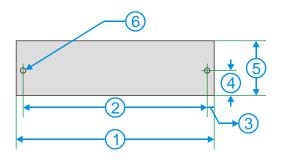
Figure 36 Remote UPS Battery Pack Mount

- 1. Position the UPS battery pack to allow cables to reach the vehicle battery and the VX6.
- 2. Attach the UPS battery pack to the vehicle mounting surface using two 1/4 bolts, lock washers and flat washers (or equivalent) fasteners.

Note: 1/4 bolts and washers not included.

**IMPORTANT:** Mount to the most rigid surface available.

# **UPS Battery Pack Remote Mounting Dimensions**



- 1 11.00" / 279.40mm
- 2 10.23" / 259.80mm
- 3 0.38" / 9.65mm
- 4 1.39" / 35.31mm
- 5 3.04" / 77.22mm
- 6 0.30" / 7.62mm

Figure 37 UPS Battery Pack Remote Mounting Dimensions

Connect Antenna 43

## **Connect Antenna**

Several antenna options are available for the VX6. Options include single or dual external antennas, remote vehicle mount antennas and an internal antenna.

### **External Antenna**

Note: VX6's are equipped with a radio and require an antenna. Some VX6's may be equipped with a dual antenna option. For these VX6's, an external antenna must be connected to each antenna connector.

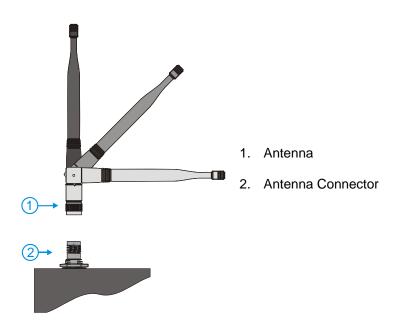


Figure 38 Connect External Antenna

Place the antenna over the antenna connector. Push down and twist clockwise until the antenna is secured. Repeat for second antenna connector, if present.

Adjust the antenna angle to improve RF communications with the computer network.

Note: Substitution of antennas is not permitted unless authorized by LXE. Use of unauthorized antennas will void the FCC emissions certification of the VX6.

## **Remote Vehicle Mount Antenna**

The external antenna (or antennas) can be remotely mounted on the vehicle. Please refer to the "Vehicle Remote Mount Antenna Installation Sheet" for details.

Connect Antenna

## **Internal Antenna**

If the internal antenna option is ordered, an antenna is mounted on the inside of the user access panel cover.

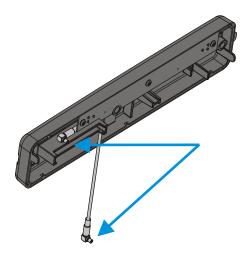


Figure 39 Internal Antenna Cables

The internal antenna assembly has two antenna cables. Attach the antenna cables to the radio card. When this process is complete, reattach the access cover screws using a torque wrench capable of measuring to  $9\pm1$  inch pounds force  $(1.016\pm.11\ N\ m)$ . The screws must be fastened to 9 inch pounds each. The screws require a Phillips size 1 driver head.

## **Connect Serial Barcode Scanner**



Refer to the documentation received with the barcode scanner for complete instructions. Read all warnings and caution labels.



Before using the scanner, read section titled "Operation", sub- section titled "Laser Barcode Scanner Warnings".

Pin 9 of COM1 is configured to provide +5V. To change Pin 9 of the port, please refer to the "VX6 Reference Guide".

The scanner cable is attached to the connector labeled "COM1/SCANNER". The scanner receives power from the VX6.

The cable requires a nine-pin D-shell female connector for the VX6.

Note: Use of a shielded cable is required to maintain FCC and CISPR22 emissions compliance.

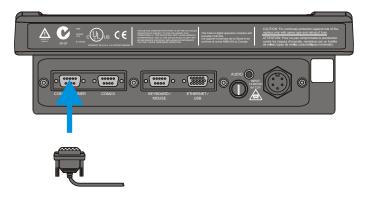


Figure 40 Connect Serial Scanner Cable

- 1. Power off the VX6 before connecting the scanner cable to the VX6.
- 2. Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not overtighten.
- 3. Use a strain relief clamp to secure the cable.
- 4. Press the power button to power up the VX6.

When you have finished using the scanner, remove it from the VX6 and store the scanner in a closed container or bag.



Figure 41 VX6 with Generic Barcode Scanner Attached



- 1. Good Scan LED (or equivalent)
- 2. Trigger
- 3. Laser Aperture at Front

Figure 42 Generic Barcode Scanner



Refer to the documentation received with the barcode scanner for complete instructions.

## **Connect Serial Printer or PC**



Refer to the documentation received with the printer or PC for complete instructions.

Pin 9 of COM3 (labeled "COM2/3") is configured to provide RI. To change Pin 9 of the port, please refer to the "VX6 Reference Guide".

The printer or PC cable requires a nine-pin D-shell female connector for the VX6.

The printer or PC cable is attached to the connector labeled "COM2/3".

Note: Use of a shielded cable is required to maintain FCC and CISPR22 emissions compliance.

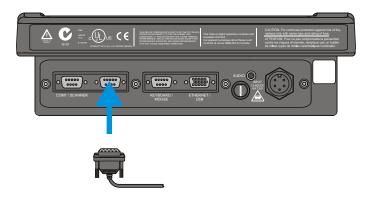


Figure 43 Connect Serial Cable to COM3

- 1. Power off the VX6 before connecting the cable to the VX6.
- 2. Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not overtighten.
- 3. Use a strain relief clamp to secure the cable.
- 4. Press the power button to power up the VX6.

48 Ethernet and USB Ports

## **Ethernet and USB Ports**

An Ethernet port and different types of external USB ports are available via a dongle cable attached to the port labeled "ETHERNET/USB", located on the bottom of the VX6. Please refer to the illustrations below for the connectors available via dongle cable.

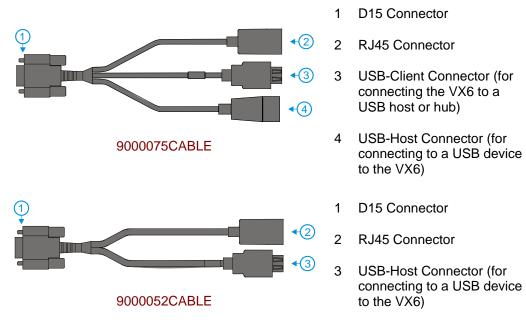


Figure 44 VX6 Ethernet/USB-H/USB-C Dongle Cables

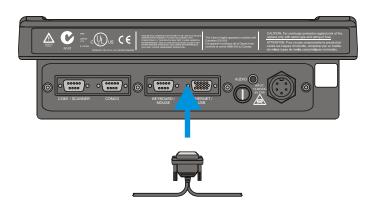


Figure 45 Connect Ethernet/USB Dongle Cable

Note: D15 to Ethernet/USB Host cable shown.

- 1. Power off the VX6 before connecting the D15 connector to the VX6.
- 2. Insert the D15 end of the Ethernet/USB dongle cable into the VX6 USB connector. Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not over tighten.

Ethernet and USB Ports 49

3. Use a strain relief clamp to secure the cable.

Note: The VX6 may be powered On any time after the D15 connector has been secured to the VX6.

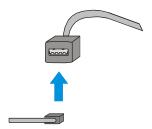


Figure 46 Connect USB Device to Dongle Cable

Note: USB Host connection shown.

4. Plug the desired device, such as a USB mouse or floppy drive, into the end of the dongle cable with the USB port. Refer to the documentation for your USB device for more details on installation. USB devices may be installed, removed or swapped without turning off the VX6.

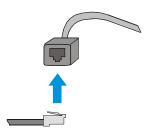


Figure 47 Connect Ethernet Cable to Adapter Cable

- 5. Insert the network cable and ensure it is firmly seated in the connector jack.
- 6. To remove the Ethernet cable, press the release tab on the cable end.

# **USB Mouse**

The USB port may be used to connect a USB mouse to the VX6, however the mouse pointer may not always be visible. Please see "Touchscreen and USB Mouse" later in this manual for more details.

50 Connect External Headset

## **Connect External Headset**

The VX6 provides an external headset connection via an audio jack connector labeled "Audio". The audio jack accepts a headset with a 2.5mm plug, such as a mono headset with microphone or a stereo headset. Please refer to the VX6 Reference Guide for information on configuring the audio port for a mono headset with microphone or a stereo headset.

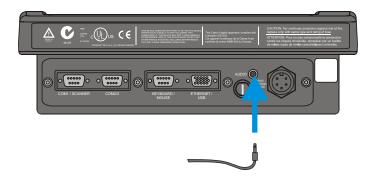


Figure 48 Connect External Headset

- 1. Insert the speaker or headphone plug into the audio connector; making sure the plug is firmly seated in the audio jack.
- 2. Replace the plug when the speaker or headset is removed from the audio jack.
- 3. Use a strain relief clamp to secure the cable.

## **Connect Power Cable and Optional UPS Battery Pack**

- 1. Turn the VX6 off before attaching the power plug.
- 2. Connect the power cable to vehicle power (See the following section titled "Vehicle 12-80VDC Direct Connection".)

- or -

to an AC adapter. (See the following section titled "External Power Supply".).

- 3. Several possibilities are available for routing the vehicle power to the VX6. See the following section titled "Vehicle 12-80VDC Direct Connection" for details.
- 4. All plugs and receptacles are keyed and care must be used when connecting the cables. Tighten the nut of the plugs clockwise until tight.

Secure the cable with the strain relief cable clamps.

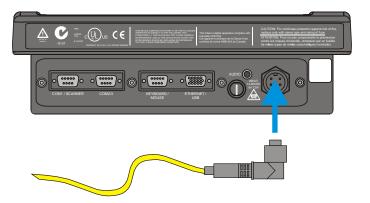


Figure 49 Connect Power Cable to VX6

5. Turn the VX6 on.

## **External Power Supply, Optional**

The LXE-approved AC Power Adapter is only intended for use in a 25°C (77°F) maximum ambient temperature environment.



Figure 50 Optional Power Configuration

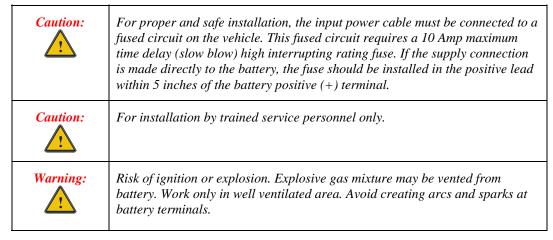
In North America, this unit is intended for use with a UL Listed ITE power supply with output rated 12-80 VDC, minimum 75W. Outside North America, this unit is intended for use with an IEC certified ITE power supply with output rated 12-80 VDC, minimum 75W.

The external power supply may be connected to either a 120V, 60Hz supply or, outside North America, to a 230V, 50Hz supply, using the appropriate detachable cordset. In all cases, connect to a properly grounded source of supply provided with maximum 15 Amp overcurrent protection (10 Amp for 230V circuits).

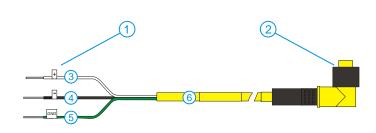
## **How To: Connect External Power Supply**

- 1. Turn the VX6 off.
- 2. Connect the detachable cordset provided by LXE (US only, all others must provide their own cable) to the external power supply (IEC 320 connector).
- 3. Plug cordset into appropriate, grounded, electrical supply receptacle (AC mains).
- 4. Connect the watertight connector end to the VX6's Power Connector by aligning the connector pins to the power connector; push down on the watertight connector and twist it to fasten securely.
- 5. Turn the VX6 on.

## **Vehicle 12-80VDC Power Connection**

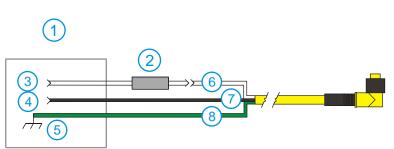


Note: Please see "Power Adapter Cable" later in this section for information on adapting a VX1, VX2 or VX4 DC power supply to the VX6.



- 1. To Vehicle Battery
- To Vehicle
   Mounted Device or UPS Battery Pack
- 3. White (DC+)
- 4. Black (DC-)
- 5. Green (GND)
- 12 80 VDC

Figure 51 Vehicle Power Connection Cable (Fuse Not Shown)



- Vehicle Electrical System
- 10 Amp Slow Blow Fuse
- 3. DC+
- 4. DC -
- 5. Vehicle Chassis
- 6. White
- 7. Black
- 8. Green

Figure 52 Connecting the Power Cable to the Vehicle

Note: Correct electrical polarity is required for safe and proper installation. Connecting the cable to the VX6 with the polarity reversed will cause the VX6's fuse to be blown. See the

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following figure titled "Vehicle Connection Wiring Color Codes" for additional wire color-coding specifics.

#### How To: Connect Vehicle 12-80VDC Connection

- The VX6 must be turned off and the power cable must be UNPLUGGED from the VX6.
- 2. While observing the fuse requirements specified above, connect the power cable as close as possible to the actual battery terminals of the vehicle. When available, always connect to unswitched terminals in vehicle fuse panel, after providing proper fusing.

ATTENTION: For uninterrupted power, electrical supply connections should not be made at any point after the ignition switch of the vehicle.

3. Route the power cable the shortest way possible. The cable is rated for a maximum temperature of 105°C (221°F). When routing this cable it should be protected from physical damage and from surfaces that might exceed this temperature.

Do not expose the cable to chemicals or oil that may cause the wiring insulation to deteriorate.

Note: If the vehicle is equipped with a panel containing Silicon Controller Rectifiers (SCR's), avoid routing the power cable in close proximity to these devices.

Always route the cable so that it does not interfere with safe operation and maintenance of the vehicle.

Use proper electrical and mechanical fastening means for terminating the cable. Properly sized "crimp" type electrical terminals are an accepted method of termination. Please select electrical connectors sized for use with 18AWG (1mm²) conductors.

Wiring color codes for LXE supplied DC input power cabling:

Vehicle Supply		Wire Color
+12 - 80VDC	(DC +)	White
Return	(DC -)	Black
Vehicle Chassis	GND	Green

Figure 53 Vehicle Connection Wiring Color Codes

- 4. Provide mechanical support for the cable by securing it to the vehicle structure at approximately one foot intervals, taking care not to over tighten and pinch conductors or penetrate outer cable jacket.
- 5. Refer to the following sections to complete the power connection to the VX6.

## How To: Connect VX6 without a UPS Battery Pack

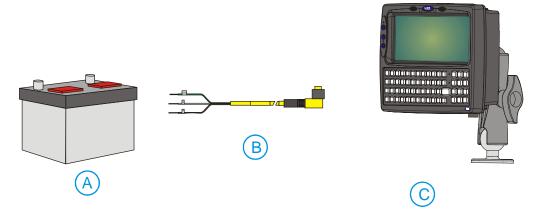


Figure 54 Direct Connection (No UPS Battery Pack)

- A Vehicle Battery
- B Vehicle Power Connection Cable
- C VX6 Computer
- 1. Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".
- 2. Connect the power cable to the VX6 by aligning the water-tight connector pins to the power connector on the bottom of the VX6; push down on the water-tight connector and twist it to fasten securely.
- 3. Turn the VX6 on.

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## How To: Connect VX6 to a Integrated Mount UPS Battery Pack

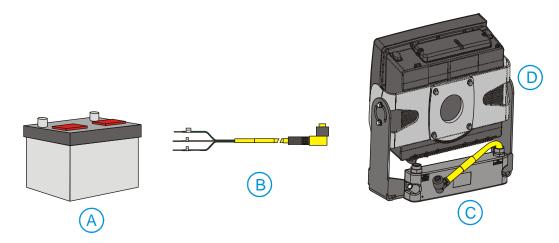


Figure 55 Integrated Mount UPS Battery Pack Connection

- A Vehicle Battery
- B Vehicle Power Connection Cable
- C UPS Battery Pack
- D VX6 Computer
- 1. Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".
- 2. Connect the power cable to the UPS battery pack by aligning the water-tight connector pins to the input connector (labeled "From Vehicle"); push down on the water-tight connector and twist it to fasten securely.
- 3. Connect the output cable (labeled "To Computer") from the UPS battery pack to the power connector on the bottom of the VX6 by aligning the water-tight connector to the power connector; push down on the water-tight connector and twist it to fasten securely.
- 4. Turn the VX6 on.

# E B

## How To: Connect VX6 to a Remotely Mounted UPS Battery Pack

Figure 56 Remote Mount UPS Battery Pack Connection

- A Vehicle Battery
- B Vehicle Power Connection Cable
- C UPS Battery Pack
- D Extension Cable
- E VX6 Computer
- 1. Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".
- 2. Connect the power cable to the UPS battery pack by aligning the water-tight connector pins to the input connector (labeled "From Vehicle"); push down on the water-tight connector and twist it to fasten securely.
- 3. Connect the output cable (labeled "To Computer") from the UPS battery pack to the extension cable by aligning the water-tight connector to the input end of the extension cable; push down on the water-tight connector and twist it to fasten securely.
- 4. Route the extension cable the shortest way possible. The cable is rated for a maximum temperature of 105°C (221°F). When routing this cable it should be protected from physical damage and from surfaces that might exceed this temperature.

Do not expose the cable to chemicals or oil that may cause the wiring insulation to deteriorate. Always route the cable so that it does not interfere with safe operation and maintenance of the vehicle.

Note: If the vehicle is equipped with a panel containing Silicon Controller Rectifiers

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(SCR's), avoid routing the power cable in close proximity to these devices.

- 5. Provide mechanical support for the cable by securing it to the vehicle structure at approximately one foot intervals, taking care not to over tighten and pinch conductors or penetrate outer cable jacket.
- 6. Connect the output end of the extension cable to the power connector on the bottom of the VX6 by aligning the water-tight connector to the power connector; push down on the water-tight connector and twist it to fasten securely.
- 7. Turn the VX6 on.

Power Adapter Cable 59

# **Power Adapter Cable**

LXE offers an adapter cable (part no. 9000077CABLER) to adapt certain VX1, VX2 or VX4 DC power supplies to the VX6. Please read and follow all cautions below to determine if your present power supply can be used with the VX6.

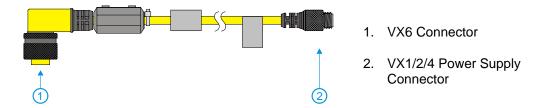


Figure 57 Power Adapter Cable, VX1/2/4 to VX6

Caution:	This document assumes the VX1/2/4 DC power cable, if applicable, is already properly connected to your vehicle. If this is not the case, please refer to the "VX1 User's Guide", "VX2 User's Guide" or "VX4 User's Guide" for direct vehicle connection details.
Caution:	For use only with VX1/2/4 DC power cables with yellow colored cable containing 18AWG wires.
	Do not use this cable with VX1/2/4 DC power cables with gray colored cable containing 22AWG wires. These power cables must be replaced with a VX5/6/7 power cable.
Caution:	When a DC power cable that is eight feet or longer is in a 12V application, there may be an excessive voltage drop over the longer cable. If this occurs, a new power cable is required.
Caution:	Do not use this adapter with AC power supplies originally designed for the 1380, 1390, VX1, VX2 or VX4. These power supplies do not have sufficient power for the VX6.

Note: For more information on the 12-80V DC direct, UPS battery pack and extension cable connections please refer to the appropriate section earlier in this manual.

# **How To Connect Power Adapter Cable**

- The VX6 must be turned off and the power cable must be UNPLUGGED from the VX6.
- 2. Attach the smaller end of the Power Adapter Cable to the VX1/2/4 power cable by aligning the water-tight connector pins to the power cable connector. Push down on the water-tight connector and twist it to fasten securely.
- Connect the larger end of the Power Cable directly to the computer or to a UPS battery
  pack, as desired. Please refer to the appropriate section earlier in this manual for UPS
  battery pack connection details.

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## **Fuse Replacement for the VX6**

The VX6 uses a 100V, 10A time delay (slow blow), high current interrupting rating fuse that is externally accessible and user replaceable. Should it need replacement, replace with same size, rating and type of fuse – Littlefuse 0234010 or Optifuse MSC-10A (5x20mm).

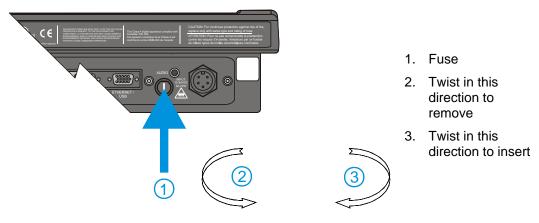


Figure 58 Fuse Replacement

1. Turn the VX6 off and disconnect the power cable from the VX6.

Caution:

Fuse has voltage on it even when power is off. Always disconnect input power before changing fuse.



- 2. While holding the VX6 over a level surface, push the fuse cover in and twist it one quarter turn counterclockwise. A flat head screwdriver may be used to twist the fuse cover.
- 3. Remove the fuse.
- 4. Discard the fuse and place a new fuse in the holder.
- 5. Push the fuse in and twist it clockwise one quarter turn.
- 6. Reconnect the power cable to the VX6.

# **Strain Relief Cable Clamps**

**Equipment Required**: Phillips screwdriver (not supplied by LXE)

There are strain relief cable clamps secured to the back of the VX6. Use the strain relief clamps to secure audio, power, and I/O cables attached to the VX6.

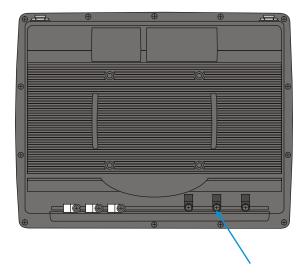


Figure 59 Strain Relief Cable Clamps

- 1. Remove the strain relief clamp from the back of the VX6 by turning the screw counterclockwise. Put the screw aside in a safe location.
- 2. Slide the strain relief clamp over the cable.



Figure 60 Slide Clamp Over Cable

- 3. Using a Phillips screwdriver and the screw that was removed, refasten the clamp holding the cable to the VX6. Do not stretch the cable. Leave enough slack in the cable to allow it to be connected and disconnected easily when needed.
- 4. Continue in this manner until all cables are secured to the VX6.

## **Operation**

## **Powering On/Off**

Connect the VX6 to a power source, either AC or Vehicle.

The power (on/off) button is located on the front of the VX6. The switch is sealed by a rubber membrane. The Status LED on the LXE VX6 is illuminated when the power is on:

- Green VX6 is operating from vehicle or AC
- Solid Yellow VX6 is operating from the UPS
- Flashing Yellow VX6 is operating from the UPS, but UPS battery is critically low.

Press the power button to start the VX6. There may be slight delays while the wireless client connects to the network, re-authorization for voice-enabled applications completes, Wavelink Avalanche management of the VX6 startup completes, or Bluetooth relationships establish or reestablish. You are now ready to use the computer.

Enter data using the keyboard, touchscreen or a Serial Barcode Scanner.

*Note:* Always turn the computer off prior to connecting or disconnecting any power source.



Figure 61 The VX6 Power Switch

The VX6 is designed for an orderly shutdown when using the power button. An orderly shutdown first closes any open programs, and then shuts down the Windows CE operating system. DO NOT remove power from the VX6 without shutting down the VX6.

The VX6 shutdown may be initiated in any of the following ways:

- Momentarily pressing and releasing the power button (less than 5 seconds) performs an orderly shutdown.
- Pressing and holding the power button for more than five seconds forces a shutdown. Any open programs and the Windows CE operating system are shut down before power off. Use this option to shut down the VX6 when the operating system is not responding.



For more information on the shutdown process, please refer to the Windows CE help function or commercially available help guides.

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## **Display and Touchscreen**

The VX6 Display is a thin-film transistor display capable of supporting Half SVGA+ graphics modes. Display size is half screen, 800 x 320 pixels. The display covering is designed to resist stains. The touch screen allows signature capture and touch input.

The touch screen is a Resistive Panel with a scratch resistant finish that can detect touches by a stylus, and translate them into computer commands. In effect, it simulates a computer mouse. Only Delrin or plastic styluses should be used.

Note: Always use the point of the stylus for tapping or making strokes on the display. Never use an actual pen, pencil or sharp object to write on the touch screen.

An extra or replacement stylus may be ordered from LXE. See the "Accessories" section for the stylus part number.

## **Adjusting Screen Display**

The color TFT display is an active source of light. The VX6 display brightness can be adjusted via the brightness control keys located on the VX6 control panel. Pressing the brightness up button increases the display brightness incrementally until maximum brightness is achieved. Likewise, pressing the brightness down button decreases the display brightness until minimum brightness is achieved. Because there are 64 incremental levels of brightness intensity, a single press of either brightness adjustment button may not be noticeable. The up or down button can be pressed and held to accelerate brightness adjustment.

*Note:* The  $2^{nd}$  functions  $\langle F4 \rangle$ ,  $\langle F5 \rangle$ ,  $\langle F6 \rangle$ , and  $\langle F7 \rangle$  keys have no function on the VX6.

There are no provisions for adjusting the contrast of the display. The display remains on unless Microsoft Windows CE power management is configured to turn the display off after a certain period of inactivity.

## **Cleaning the Display**

Keep fingers and rough or sharp objects away from the display. If the glass becomes soiled or smudged, clean only with a standard household cleaner such as Windex® without vinegar or use Isopropyl Alcohol. Do not use paper towels or harsh-chemical-based cleaning fluids since they may result in damage to the glass surface. Use a clean, damp, lint-free cloth. Do not scrub optical surfaces. If possible, clean only those areas which are soiled. Lint/particulates can be removed with clean, filtered canned air.

## **Disabling the Touchscreen**

The touchscreen can be disabled, if desired. For more information, please refer to "Disabling the Touchscreen" in the "VX6 Reference Guide".

## **Disabling the Touchscreen Heater**

The touchscreen heater included on extended temperature VX6 models can be disabled on certain VX6's, if desired. For more information, please refer to "Disabling the Touchscreen" in the "VX6 Reference Guide".

## **Calibrating the Touchscreen**

Although the touch screen is installed and calibrated at the factory, users may make adjustments to it. To calibrate the touchscreen, select **Start|Settings** and double tap the Stylus icon.

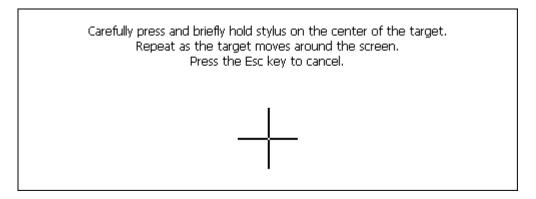


Figure 62 Touchscreen Calibration, Calibration Targets

The calibration utility displays a cross on the screen. Touch the center of the cross with the stylus and hold for a few seconds. Release and repeat with the next cross. After all locations have been touched, either press <Enter> or click the Calibration button.

#### **Touchscreen Protective Film**

LXE offers a replaceable touchscreen protective film to protect the touchscreen when the VX6 is used in an abrasive environment. Installation and removal instructions can be found earlier in this guide.

#### **Touchscreen and USB Mouse**

Please refer to the "VX6 Reference Guide" for information on identifying your VX6.

#### Platform 1 VX6's

Because the touchscreen also functions as a mouse, the pointer for on the 95-key keyboard, a USB mouse or a PS/2 mouse may not always be visible on the screen. The mouse pointer reappears when the 95-key keyboard pointer or external mouse is moved or clicked. Please see "USB Mouse" earlier in this manual for more details.

- When a USB mouse is first attached to the VX6, the mouse pointer may not be visible. However, moving or clicking the mouse causes the pointer to appear.
- When the USB mouse is unplugged, the pointer may remain visible until the touchscreen is tapped.
- If the touchscreen is used for input, the mouse pointer may disappear. However, moving or clicking the mouse or pointing device on the 95-key keyboard causes the pointer to reappear.

#### Platform 2 VX6's

The mouse pointer is not visible unless a USB mouse is attached.

If a mouse of any kind is attached, the mouse pointer is displayed on screen.

## **Adjust Speaker Volume**

Microsoft Windows CE provides volume adjustment by clicking the "Volume and Sounds" icon in the Windows CE Control Panel. The volume control adjusts the built in speaker's volume.

Note: The <F8> and <F9> keys on the VX6 keyboard have no function as Windows CE controls the sound volume.

#### **Microsoft Windows CE Event Sounds**

The VX6 includes a customized sound scheme. The customized WAV files are preferable to the standard Microsoft Windows CE sounds when using the internal speakers.

## **Power Management**

All Power Management is handled through the Microsoft Windows CE Control Panel. Since the VX6 is externally powered, the only power management configuration is for the display/display backlight and the keyboard backlight. The display, the display backlight and the keyboard backlight are turned off at the same time. The time interval can be configured using  $Start \mid Settings \mid Control Panel \mid Display \mid Backlight tab$ .

When enabled, the display, display backlight and keyboard backlight are turned off when the timer expires. The timer is reset by the following primary events:

- Keypress, or
- Mouse movement, or
- Touchscreen touch

For more information on configuring Microsoft Windows CE Power Management, please refer to the VX6 Reference Guide.

## **Laser Barcode Scanner Warnings**

- Do not look into the laser's lens.
- Do not stare directly into the laser beam.
- Do not remove the laser caution labels from the scanner.
- Do not connect the laser barcode module to any other device.

## Caution:

Please read the caution labels.



Avoid exposure. Laser light is emitted from the scanner's aperture.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The scanner uses laser light. The following labels are **representations** of caution and warning labels placed on laser scanners.





Figure 63 Caution Labels
Class II Scanner





Figure 64 Caution Labels
Class IIIA Scanner

Do not pour, spray, or spill any liquid on the scanner. The Barcode Scanner contains the circuitry, scanning motor and laser. Handle with appropriate care.

#### **Enter Data**

You can enter data into the VX6 through several different methods:

- The tethered scanner connected to the COM1 serial port provides barcode data entry
- The serial ports are used to input/output data
- The keyboard provides manual entry
- The touchscreen also provides manual entry

68 Enter Data

## **Keyboard Entry**



Refer to Appendix A "Key Maps" for specific keypresses.

The keyboard is used to manually input data that is not collected otherwise. Almost any function that a full sized computer keyboard can provide is duplicated on the VX6 keyboard but it may take a few more keystrokes to accomplish a keyed task.

Almost every key has two or three different functions. The primary alpha or numeric character is printed on the key.

For example, when the  $<2^{\text{nd}}>$  key is selected pressing the desired second-function key produces the  $<2^{\text{nd}}>$  character i.e.  $<2^{\text{nd}}>+$  F1 toggles the CAPS Lock function. The specific  $<2^{\text{nd}}>$  character is printed above the corresponding key.

Please refer to Appendix A "Key Maps" for instruction on the specific keypresses to access all PC-compatible keyboard functions.

## **Touchscreen Entry**

Note: This section is directed to the VX6 user. The assumption is that the unit has been configured and the touch panel calibrated by the System Administrator prior to releasing the VX6 for use.

Note: Always use the point of the stylus for tapping or making strokes on the display. Never use an actual pen, pencil or sharp object to write on the touch screen.

The touchscreen input performs the same function as the mouse that is used to point to and click elements on a desk top computer. The stylus is used in the same manner as a mouse – single tap or double tap to select menu options, drag the stylus across text to select, hold the stylus down to activate slider bars, etcetera. Holding the stylus down for ½ second performs the right mouse click function.

When using a stylus, hold the stylus as if it were a pen or pencil. Touch an element on the screen with the tip of the stylus then remove the stylus from the screen. The touch screen responds to an actuation force (touch) of up to 4 oz. of pressure.

The touch screen can be used in conjunction with the keyboard and an input/output device connected to one of the VX6's serial ports.

- Touch the stylus to the field of the data entry form to receive the next data feed.
- The cursor begins to flash in the field.
- The unit is ready to accept data from either the keyboard or a device connected to a serial port.

## **Right Click**

A right click can be simulated on the touch screen. To perform a right click, touch the touch screen with the stylus and hold it in the same location for a short time.

Enter Data 69

#### **Tethered Scanners**

The following section is directed toward a generic tethered scanner connected to the COM1 serial port on the VX6.

#### **Aiming the Barcode Scanner**

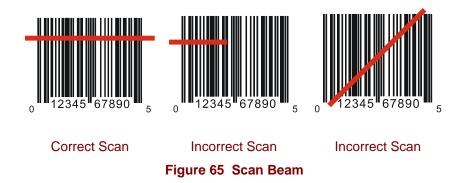
Aim the scanner *away* from you, direct it at the barcode and press the trigger to scan.

The Scan On LED (or equivalent) turns red to indicate the scanner is on.

Adjust the aim so that the thin, red laser beam covers the entire length of the barcode.

Some scanners use a laser aiming beam which then spreads into a wide beam when the scanner's Aiming Beam Timer expires. Place the aiming beam in the center of the barcode and hold the scanner steady until the beam spreads and the barcode is decoded. Beeps may be heard as the barcode is decoded. Refer to the barcode scanner user's guide for information on the Aiming Beam Timer and beep sequences, and the TE reference guide for host generated beep sequences.

The scan beam must cross every bar and space on the barcode.



## **Distance from Label**

Large barcodes can be scanned at the maximum distance. Hold the scanner closer to small barcodes (or with bars that are very close together).

Note: Do not position the scanner exactly perpendicular to the barcode being scanned. In this position, light can bounce back into the scanner's exit window, and possibly prevent a successful decode.

#### Successful Scan

When the scan is successful, the scanner's good scan indicator illuminates, the scan on indicator is off, and the currently running application may produce a distinctive audible tone.

#### **Unsuccessful Scan**

When the scan is unsuccessful, the scan on indicator remains illuminated and the currently running application may produce distinctive audible tones. Check the following:

- Is the scanner programmed for the barcode being read?
- Check the barcode for marks or physical damage e.g. ripped label, missing section, etc.
- Try scanning test symbols of the same code type at different distances and angles.

70 Enter Data

## **Bluetooth Scanners**

Bluetooth scanners are paired to the VX6 wirelessly using the VX6 Bluetooth wireless client.

See previous sections on Bluetooth for more information.

Only LXE Bluetooth scanners and LXE Bluetooth printers are supported by LXE. See *Accessories*.

## **Voice Data**

Data is entered into the VX6 by speaking into the headset's microphone when prompted. Please contact your System Administrator if assistance is needed with the voice software.

**Bluetooth Devices** 71

#### **Bluetooth Devices**

Assumption: The System Administrator has Discovered and Paired targeted Bluetooth devices for each VX6. The System Administrator has also enabled / disabled Bluetooth settings and assigned a Computer Friendly Name for each VX6. See the VX6 Reference Guide for information and instruction on the VX6, Bluetooth control panel applet and supported LXE Bluetooth printers and scanners.

The Bluetooth taskbar Icon state and Bluetooth scanner LED states change as Bluetooth devices are discovered, pair, connect and disconnect. There may be audible or visual signals as paired devices re-connect with the VX6. Only LXE printers or scanners are recognized and displayed in the Bluetooth panel. All other Bluetooth devices are ignored. (see VX6 Reference Guide for details).

Taskbar Icon	Legend
*	Bluetooth module is connected to one or more of the targeted Bluetooth device(s).
	VX6 is not connected to any Bluetooth device.  VX6 is ready to connect with any Bluetooth device.  VX6 is out of range of all paired Bluetooth device(s). Connection is inactive.

Note: When an active paired device, not the VX6, enters Suspend Mode, is turned Off or leaves the VX6 Bluetooth scan range, the Bluetooth connection between the linked device and the VX6 is lost. There may be audible or visual signals as paired devices disconnect from the VX6.

#### **Notes**

- The VX6 does not have a Bluetooth managed LED.
- The LED on the Bluetooth scanner illuminates during a scanning operation; there is no Scan LED on the VX6.
- Barcode data captured by the Bluetooth scanner is manipulated by the settings in the VX6 Scanner Properties control panel applet.
- Multiple beeps may be heard during a barcode scan using the Bluetooth scanner; beeps from the Bluetooth scanner as the barcode data is accepted/rejected, and other beeps from the VX6 during final barcode data manipulation.

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See Accessories for supported Bluetooth printers and scanners.

AppLock, if installed, does not stop the end-user from using Bluetooth, nor does it stop authorized Bluetooth devices from pairing with the VX6 while AppLock is in control.

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72 Bluetooth Devices

# **Appendix A Key Maps**

## The VX6 Keypad

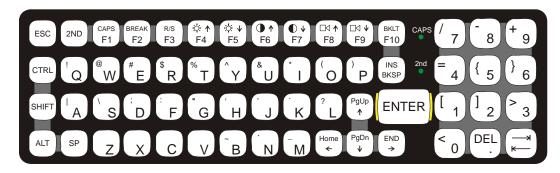


Figure 66 VX6 QWERTY Keyboard

# **Key Map 101-Key Equivalencies**

When using a sequence of keys that includes the  $<2^{nd}>$  key, press the  $<2^{nd}>$  key first then the rest of the key sequence.

Note: The VX6 keyboard does not have a NumLock indicator. NumLock is always on.

When the VX6 boots, the default condition of Caps (or CapsLock) is Off. The Caps (or CapsLock) condition can be set toggled with a <2nd>+<FI> key sequence. The CAPS LED is illuminated when CapsLock is On.

To get this key	Press These Keys and Then					Press this key
To get this key	2 <sup>nd</sup>	Shift	Ctrl	Alt	CapsLock	Fress tills key
Suspend/Resume <sup>1</sup>	х					F3
2 <sup>nd</sup>						2 <sup>nd</sup>
Shift						Shift
Alt						Alt
Ctrl						Ctrl
Esc						Esc
Space						Sp
Enter						Enter
Enter (numeric)	х					Enter
CapsLock (Toggle)	х					F1
Back Space						Ins/BkSp
Tab						Tab

<sup>&</sup>lt;sup>1</sup> The Suspend/Resume key has no function as Windows Power Management controls the power management modes.

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_ ,		Press T	hese Key	s and T	hen	
To get this key	2 <sup>nd</sup>	Shift	Ctrl	Alt	CapsLock	Press this key
BackTab	х					Tab
Ctrl-Break <sup>2</sup>	Х		Х			F2
Pause	Х	х				F3
Up Arrow						Up Arrow
Down Arrow						Down Arrow
Right Arrow						Right Arrow
Left Arrow						Left Arrow
Insert	Х					Ins/BkSp
Delete (numeric)	Х					DEL
Home	Х					Left Arrow
End	х					Right Arrow
Page Up	Х					Up Arrow
Page Down	Х					Down Arrow
Right Shift	х	х				F7
Right Alt	Х	х				F8
Right Ctrl	Х	х				F9
ScrollLock	Х	х				F4
NumLock <sup>3</sup>	Х	х				F10
F1						F1
F2						F2
F3						F3
F4						F4
F5						F5
F6						F6
F7						F7
F8						F8
F9						F9
F10						F10
F11	Х	х				F1
F12	Х	х				F2
а						А
b						В
С						С
d						D
е						E
f						F
g						G

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Press <Ctrl> then <2<sup>nd</sup>> then <F2> to produce Ctrl-Break.

The NumLock toggle has no effect on the VX6 as NumLock is always On.

To get this key	•	Press T	Press this key			
10 get tills key	2 <sup>nd</sup>	Shift	Ctrl	Alt	CapsLock	i 1000 tilla NGy
h						Н
i						I
j						J
k						K
I						L
m						М
n						N
0						0
р						Р
q						Q
r						R
S						S
t						Т
u						U
V						V
W						W
Х						Х
у						Υ
Z						Z
А					х	Α
В					х	В
С					х	С
D					х	D
Е					х	Е
F					х	F
G					х	G
Н					х	Н
I					х	I
J					х	J
K					х	K
L					Х	L
M					х	М
N					х	N
0					х	0
Р					х	Р
Q					х	Q
R					х	R
S					Х	S
T					х	Т
U					Х	U

To get this key		Press T	Proce this key			
To get this key	2 <sup>nd</sup>	Shift	Ctrl	Alt	CapsLock	Press this key
V					Х	V
W					х	W
X					x	X
Υ					х	Υ
Z					×	Z
1						1
2						2
3						3
4						4
5						5
6						6
7						7
8						8
9						9
0						0
DOT						DOT
<	х					0
]	х					1
]	х					2
>	х					3
=	х					4
{	х					5
}	х					6
/ (numeric)	х		х			7
/ (alpha)	х					7
- (numeric)	х		х			8
- (alpha)	х					8
+ (numeric)	х		х			9
+ (alpha)	х					9
* (numeric)	х					I
* (alpha)	х		х			I
: (colon)	х					D
; (semicolon)	х					F
?	х					L
`	х					N
_ (underscore)	х					М
, (comma)	х					J
' (apostrophe)	х					Н
~ (tilde)	х					В
\	х					S

To get this key		Press T	Press this key			
To get tills key	2 <sup>nd</sup>	Shift	Ctrl	Alt	CapsLock	riess tills key
	х					А
u	х					G
!	х					Q
@	х					W
#	х					E
\$	х					R
%	х					Т
۸	х					Υ
&	х					U
(	х					0
)	х					Р

## **IBM 3270 Keypad Overlay**



Figure 67 IBM 3270 Specific Keypad

The 60-key keypad is available with an IBM 3270 overlay designed to allow the user to enter terminal emulator commands when running LXE's RFTerm<sup>TM</sup> program. When running this program please refer to the following reference guide for equivalent keys and keypress sequences:

RFTerm<sup>TM</sup> Reference Guide

# **IBM 5250 Keypad Overlay**



Figure 68 IBM 5250 Specific Keypad

The 60-key keypad is available with an IBM 5250 overlay designed to allow the user to enter terminal emulator commands when running LXE's RFTerm<sup>TM</sup> program. When running this program please refer to the following reference guide for equivalent keys and keypress sequences:

• RFTerm™ Reference Guide

# **Appendix B Regulatory Notices and Safety Information**

#### **FCC Information:**

This device complies with FCC Rules, part 15. Operation is subject to the following conditions:

- 1. This device may not cause harmful interference and
- 2. This device must accept any interference that may be received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. **Warning**: Changes or modifications to this device not expressly approved by LXE, Inc., could void the user's authority to operate this equipment.

#### **EMC Directive Requirements:**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

#### **Industry Canada:**

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le Règlement sur le brouillage radioélectrique édits par le ministère des Communications du Canada.

#### 声明

此为A级产品,在生活环境中,该产品可能会造成无线电干扰。在这种情况下,可能需要用户对其干扰采取切实可行的措施。

#### Notice

The long term characteristics or the possible physiological effects of radio frequency electromagnetic fields have not been investigated by UL.

#### **RF Safety Notice:**



This device is intended to transmit RF energy. For protection against RF exposure to humans and in accordance with FCC rules and Industry Canada rules, this transmitter should be installed such that a minimum separation distance of at least 20 cm (7.8 in.) is maintained between the antenna and the general population. This device is not to be co-located with other transmitters.



Important: This symbol is placed on the product to remind users to dispose of Waste Electrical and Electronic Equipment (WEEE) appropriately, per Directive 2002-96-EC. In most areas, this product can be recycled, reclaimed and re-used when properly discarded. Do not discard labeled units with trash. For information about proper disposal, contact LXE through your local sales representative, or visit www.lxe.com.

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#### R&TTE Directive Requirements (Applies only to Equipment operated within the EU/EFTA)



#### **Information to User**

A label on the exterior of the device should resemble one of the labels shown below (the label contains the LXE part number of the installed radio card). The labels shown below and affixed to the device, identify where the device may be used and where its use is restricted. Use of a device is prohibited in countries not listed below or otherwise identified by the label. (May or may not include the 0560 Notified Body No.)





Complies with IDA Standards DA103458

Republic of Singapore - LXE Dealer License Number DA103458 complies with IDA Standards.

## **Approvals**

Product	EMI / EMC Standards	Safety Standards
VX6	FCC Part 15 Subpart B, Class A	EN 60950:2000 3 <sup>rd</sup> Ed.
	EN 55022 : 1998 Class A	UL 60950:2000 3 <sup>rd</sup> Ed.
	EN 55024 : 1998	CSA C22.2 No. 60950
		IEC60950:1999 3 <sup>rd</sup> Ed.

Transceiver	RF Standards	Notes
6726 (LXE Model No.)  LXE 6700 System 2.4GHz Type II  PCMCIA Card	FCC Part 15, Subpart C FCC Part 2 EN 300 328 EN 300 826	Unlicensed Operation Unlicensed Operation
	IC-RSS 139 IC-RSS 102	Requires License for Outdoor Use
4830 (LXE Model No.)  LXE 2.4GHz CF with Type II PCMCIA Adapter Card	FCC Part 15 FCC Bulletin OET-65 EN 300 328 IC-RSS 210 IC-RSS 102	Unlicensed Operation Unlicensed Operation Requires License for Outdoor Use
4831 (LXE Model No.)  LXE 5GHz CF with Type II PCMCIA  Adapter Card	FCC Part 15 FCC Bulletin OET-65 EN 300 328 EN 301 893 IC-RSS 210 IC-RSS 102	Unlicensed Operation Unlicensed Operation Requires License for Outdoor Use



# **Lithium Battery Safety Statement**



#### **Caution:**

Lithium battery inside. Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by battery manufacturer. (US)

#### Attention

Contient une pile de lithium. Risque d'explosion dans le cas où la pile ne serait pas correctement remplacée. Remplacer uniquement avec une pile semblable ou equivalente au type de pile recommandé par le fabricant. (FR)

#### Forsigtig:

Indeholder lithiumbattterier. Risiko for eksplosion, hvis batteriet udskiftes forkert. Må kun udskiftes med samme eller tilsvarende type, som anbefalet af fabikanten. (DK)

#### Varoitus:

Tämä tuote käyttää laservaloa. Skannerissa on jokin seuraavista tarroista. Lue Huomio-kohta. (FI)

#### Vorsicht:

Enthält Lithium-Batterie. Bei unsachgemäßem Ersatz besteht Explosionsgefahr. Nur durch gleichen oder vom Hersteller empfohlenen Typ ersetzen. (DE)

#### **Attenzione:**

Batteria al litio. Pericolo di esplosione qualora la batteria venga sostituita in maniera scorretta. Sostituire solo con lo stesso tipo o equivalente consigliato per il fabbricante. (IT)

#### Atenção:

Contém pilha de lítio. Há perigo de explosão no caso de uma substituição incorreta. Substitua somente pelo mesmo tipo, ou equivalente, recomendado pelo fabricante. (PT)

#### Varning:

Innehåller litiumbatteri. Fara för explosion om batteriet är felaktigt placerat eller av fel typ. Använd endast samma eller motsvarande typ batterier rekommenderade av tillverkaren. (SE)

#### Advarsel:

Innmontert Lithium batteri. Eksplosjonsfare ved feil montering av batteri. Benytt kun batteri anbefalt av produsent. (NO)

#### Cuidado:

Pila de litio adentro. Peligro de explosión si la pila se reemplaza incorrectamente. Reemplace solamente con el mismo tipo o equivalente recomendado por el fabricante. (ES)

#### Oppassen:

Bevat Lithium-batterij. Incorrrecte plaatsing van batterij kan leiden tot explosiegevaar. Alleen vervangen door hetzelfde of door fabrikant aanbevolen gelijkwaardig type. (NL)



# **Lithium Battery Safety Statement**



#### Προσοχή:

Υπάρχει μπαταρία από λίθιο εσωτερικά.

Υπάρχει κίνδυνος έκρηξης εάν η μπαταρία αντικατασταθεί με λανθασμένο τρόπο.

Αντικαταστήστε μόνο με τον ίδιο ή ισοδύναμο τύπο που συνιστάται από τον κατασκευαστή.

#### 주의:

리튬 배터리 내부. 배터리가 잘못 설치되었을 경우 폭발의 위험이 있습니다. 동일한 배터리, 또는 배터리 제조업체가 권장하는 배터리로 교체하십시오.

(KR)

(GR)

#### 注意:

リチウム電池が入っています。間違った 種類の電池を使用すると、破裂する恐れ があります。同じ電池、または電池製造 元が推奨する同等の電池を使用してくだ さい。

#### 小心:

内装锂电池。如电池更换不当,则有发 生爆炸的危险。只能用电池制造商推荐 的相同或同等电池进行更换。

(JP)

(CN)

#### Dikkat:

İçinde lityum bataryası bulunur.

Bataryanın yanlış değiştirilmesi patlama tehlikesi yaratır.

Aynısıyla veya üreticinin önerdiği eşdeğer tiple değiştirin.

(TR)

## Legend:

Chinese Danish Dutch	CN	Italian	IT
	DK	Japanese	JP
	NL	Korean	KR
English Finnish French	US	Norwegian	NO
	FI	Portuguese	PT
	FR	Spanish	ES
German	DE	Swedish	SE
Greek	GR	Turkish	TR



# A/C Power Supply Safety Statement – VX6 Output Rated 12 – 80 VDC, Minimum 75W.



The LXE-approved AC Power Adapter is only intended for use in a 25°C (77°F) maximum ambient temperature environment.



#### **Optional A/C Power Supply:**

Outside North America, this unit is intended for use with an IEC certified ITE power supply with output rated as stated at the top of this page. (US)

#### Alimentation c.a. optionnelle:

Hors de l'Amérique du Nord, cette unité est conçue pour être utilisée avec une alimentation ITE certifiée CEI de sortie nominale indiquée au haut de cette page. (FR)

#### Valgfrit vekselstrømforsygning

Udenfor Nord Amerika er denne enhed udstattet med en IEC (international elektronisk Kommission) udfærdiget med en ITE strømforsygning med strømudgang som fastslået på denne sides begyndelse. (DK)

#### Vaihtoehtoinen vaihtovirran syöttölaite:

Pohjois-Amerikan ulkopuolella tämä laite on tarkoitettu käytettäväksi sellaisen IEC:n sertifioiman ITE-tehonsyöttölaitteen kanssa, jonka antoteho on tämän sivun yläosassa esitetyn mukainen. (FI)

#### **Optionales Netzteil (Wechselstrom)**

Außerhalb Nordamerikas sollte diese Einheit über ein der IEC-Norm entsprechendes ITE-Netzteil gespeist werden, und zwar mit einer wie oben auf dieser Seite genannten Ausspeisung. (DE)

#### Προαιρετική Τροφοδοσία Συνεχούς Ρεύματος

Εκτός Β. Αμερικής, η μονάδα αυτή προορίζεται για χρήση με ένα τροφοδοτικό ΙΤΕ πιστοποιημένο κατά ΙΕC με ονομαστική ισχύ όπως δηλώνεται στην αρχή της σελίδας. (GR)

#### Alimentazione opzionale a corrente alternata:

Al di fuori dei paesi dell'America del nord, l'unità deve essere impiegata con un dispositivo d'alimentazione per attrezzature informatiche approvato dalla IEC la cui potenza nominale sia pari a quella indicata all'inizio della pagina. (IT)

#### Vekselstrømforsyning (ekstrautstyr):

Utenfor Nord-Amerika skal dette produktet brukes med en IEC-sertifisert ITE-strømforsyning med klassifisert effekt som angitt øverst på denne siden. (NO)

#### Fornecimento opcional de CA:

Fora dos EUA, esta unidade destina-se a ser usada com dispositivos de fornecimento de corrente ITE com certificação IEC, com a capacidade indicada no topo desta página. (PT)

#### Suministro optativo de corriente alterna

Fuera de América del Norte, esta unidad se debe utilizar con un alimentador ITE homologado por la IEC (comisión electrotécnica internacional) con una salida que tenga la calificación que figura en la parte superior de esta página. (ES)

#### Valfri A/C Strömförsörjning

Utanför Nordamerika är det meningen att denna enheten används med en IEC-certifierad ITE-strömförsörjare med den uteffekt som anges längst uppe på den här sidan. (SE)

#### İsteğe Bağlı A/C Güc Kavnağı:

Kuzey Amerika dışında, bu ünite, çıkış sınıflandırması bu sayfanın başında belirtilen IEC sertifikalı bir ITE güç kaynağı ile birlikte kullanılmak üzere tasarlanmıştır. (TR) Updated 10/01/2001

**Legend:** Danish – DK; English – US; Finnish – FI; French - FR; German – DE; Greek – GR; Italian – IT; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.



# **Vehicle Power Supply Connection Safety Statement**



#### **Vehicle Power Supply Connection:**

If the supply connection is made directly to the battery, a 10A slow-blow fuse should be installed in the positive lead within 5 inches (12.7 cm.) of the battery positive (+) terminal. (US)

#### Raccordement de l'alimentation du véhicule

Si l'alimentation est raccordée directement à la batterie, un fusible à action retardée de 10A doit être installé sur le câble positif à moins de 12,7 cm de la borne positive (+) de la batterie. (FR)

#### EL forsyning af køretøjet.

Er forsyningsforbindelsen direkte tilknyttet til batteriet og og tilsluttet til den positive part indenfor 12,7 cm (+ delen). vil der være en langsom tændelse af 10 ampere. (DK)

### Kytkentä ajoneuvon virtalähteeseen

Jos virtaa otetaan suoraan akusta, 10 ampeerin hidas sulake on asennettava positiiviseen johtoon enintään 12 cm:n etäisyydelle akun positiivisesta (+) navasta. (FI)

## Anschluss an Fahrzeugbatterie

Bei direktem Anschluss an die Fahrzeugbatterie sollte eine träge 10A-Sicherung in die positive Leitung zwischengeschaltet werden, und zwar nicht weiter als ca. 13 cm von der positiven (+) Batterieklemme entfernt. (DE)

#### Σύνδεση Τροφοδοτικού Ισχύος Οχήματος

Αν η σύνδεση του τροφοδοτικού γίνει κατευθείαν στη μπαταρία, μια ασφάλεια βραδείας τήξης των 10Α θα πρέπει να τοποθετηθεί στο θετικό καλώδιο εντός 5 ιντσών (12,7 εκ.) του θετικού (+) ακροδέκτη της μπαταρίας. (GR)

#### Collegamento dell'alimentazione del veicolo

Se il collegamento dell'alimentazione viene stabilito direttamente con la batteria, è necessario installare un fusibile ad azione lenta da 10 A nel conduttore positivo a meno di 5 in. (12,7 cm) dal terminale positivo (+) della batteria. (IT)

#### Tilkople strømforsvningen til kjøretøvet

Hvis strømforsyningen koples direkte til batteriet, skal det installeres en 10 A treg sikring i den positive ledningen innen 12,7 cm fra plusspolen (+) på batteriet. (NO)

#### Ligação do fornecimento de corrente do veículo

Se a ligação de fornecimento de corrente for ligada directamente à bateria, deve instalar-se um fusível de 10A no terminal positivo, a 12,7 cm. do terminal positivo (+) da bateria. (PT)

## Conexión de suministro eléctrico para el vehículo

Si el suministro eléctrico se proporciona directamente a la batería, se debe instalar un fusible de retardo de 10 A en el conductor positivo, como máximo a 12,7 cm (5 pulgadas) del terminal positivo (+). (ES)

## Fordonets strömförsörjningskoppling

Om strömkopplingen görs direkt till batteriet, måste en 10A-säkring installeras i den positivt laddade ledningen inom 12.7 cm från batteriets pluspol (+). (SE)

#### Taşıt Güç Kaynağı Bağlantısı

Kaynak bağlantısı doğrudan aküye yapılırsa, pozitif bağlantı kablosu üzerinde akünün pozitif (+) kutbuna 12.7 cm mesafede 10A'lık yavaş atan bir sigorta monte edilmelidir. (TR)

**Legend:** Danish – DK; English – US; Finnish – FI; French- - FR; German – DE; Greek – GR; Italian – IT; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.

Updated 02/10/2004

# **Revision History**

## Revision A, Initial Release: November 2004

## **Revision B: August 2005**

Section	Explanation
Cover pages	Updated LXE logo and date.
Accessories	Updated accessories listing.
Introduction	Added internal antenna to VX6 option listing.
Components	Added note on internal antenna.
Connect Antenna	Revised to include "External Antenna", "Remote Vehicle Antenna Mount" and "internal Antenna" sections.
Disabling the Touchscreen Heater	Added new section.
Touchscreen and Mouse	Revised section.

## **Revision C: October 2005**

Section	Explanation
Notices	Added WEEE statement.
Accessories	Updated accessories listing.
Installation	Updated section for RAM clamp mount installation.
Appendix B – Regulatory Notices and Safety Information	Added Hungary to R&TTE Directive Requirements.  Added WEEE statement.  Added temperature statement to A/C Power Supply Safety Statement.

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## **Revision D: August 2006**

Section	Explanation			
Entire Manual	Updated images as necessary to reflect the 2005 LXE logo.			
Notices	Updated copyrights and trademarks.			
Introduction	Revised section			
Accessories	Updated accessories list.			
PCMCIA, ATA and SD Slots	Revised section.			
AppLock and the VX6	Added new section.			
Custom Key Maps	Revised section.			
Step 2 – Attach RAM Mount Ball to the VX6	Added caution statement.			
Appendix B – Regulatory Notices and Safety Information	Added "Revision History" to appendix.  Added Summit Radio (LXE Model No. 4830) to appendix.			

## **Revision E: October 2006**

Section	Explanation
Notices	Updated copyrights and trademarks.
Accessories	Updated Accessories listing.
Input Panel (Virtual Keyboard)	Revised section.
Appendix B – Regulatory Notices and Safety Information	Revised 4830 Declaration of Conformity

## **Revision F: November 2007**

Section	Explanation
Entire Manual	Updated specific references to Microsoft Windows CE .NET to generic references to Microsoft Windows CE to reflect the availability of either Windows CE .NET or CE 5.0 operating systems on the VX6. Added Bluetooth information and instruction.
Accessories	Revised Accessories listing.
Strain Relief Cable Clamps	Added new section.
AppLock and the VX6	Revised section.
Appendix B – Regulatory Notices and Safety Information	Added translated Chinese Class A statement and Republic of Singapore IDA Standards text.  Revised "R&TTE Directive Requirements".

## Revision G: May 2008

Section	Explanation
Accessories	Revised accessories listing.
NumLock and the VX6	Revised section.
Appendix A – Key maps	Revised NumLock information.

## **Revision H: September 2008**

Section	Explanation
Appendix B Regulatory Notices and Safety Information	Update approvals for 802.11 a/b/g radio.  Remove Summit Declaration of Compliance for consistency.

## **Revision J: December 2008**

Section	Explanation
Microsoft Windows CE Control Panel	Revised section.

## **Revision K: April 2009**

Section	Explanation
Multi Application AppLock	Revised section.
Accessories	Revised accessories listing.

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